

WEEK OF Sept. 7 - 11, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
M O N	Labor Day - No School					
W E D	Prerequisite Skills ACT Quality Core: f. Safely use laboratory equipment and techniques when conducting scientific investigations.	Bell Ringer: Students will complete a student information lab coat. Students will: Discussion of student info sheet, supplies, & lab safety. Watch video on lab safety & complete Lab Safety Scenario matching activity.	Teacher designed class policies and procedures Laboratory Contract Student Information Sheet Post-It Note Activity Questions Zombie College Lab Safety Video Safety Scenarios	Review for Lab Safety Quiz Tuesday Acquire classroom supplies and have parents sign paperwork <i style="color: red;"><u>Advanced students</u> need to check access at home for notes and power points on teacher page of the school website & Schoology.</i>	Ability to stay on task and work within time constraints	Prerequisite Skills ACT Quality Core: f. Safely use laboratory equipment and techniques when conducting scientific investigations.
F R I	Prerequisite Skills ACT Quality Core: f. Safely use laboratory equipment and techniques when conducting scientific investigations.	ADV & GEN BR: Complete Lab Safety Questions Students will: ADV & GEN - Discuss class policies, procedures, & important locations around the room. Complete Lab Safety Escape Room. ADV: Watch Claim, Evidence, Reasoning Video. Complete Checkpoint NOS.1	Teacher designed class policies and procedures Lab Safety Escape Room Set up Remind & review log-in procedures for Schoology.	Review for Lab Safety Quiz Tuesday Virtual Assignment Due next Friday: Read It Lesson 1 Article & questions	Ability to stay on task and work within time constraints	Prerequisite Skills ACT Quality Core: f. Safely use laboratory equipment and techniques when conducting scientific investigations.

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S	<p>Prerequisite Skills</p> <p>ACT Quality Core:</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p>	<p>Bell Ringer: Students will complete a student information lab coat.</p> <p>Students will: Discussion of student info sheet, supplies, & lab safety.</p> <p>Watch video on lab safety & complete Lab Safety Scenario matching activity.</p>	<p>Teacher designed class policies and procedures</p> <p>Laboratory Contract</p> <p>Student Information Sheet</p> <p>Zombie College Lab Safety Video</p> <p>Safety Scenarios</p>	<p>Review for Lab Safety Quiz Monday</p> <p>Acquire classroom supplies and have parents sign paperwork</p> <p><i>Advanced students need to check access at home for notes and power points on teacher page of the school website & Schoology.</i></p>	<p>Ability to stay on task and work within time constraints</p>	<p>Prerequisite Skills</p> <p>ACT Quality Core:</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p>
T H U R	<p>Prerequisite Skills</p> <p>ACT Quality Core:</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p>	<p>ADV & GEN BR: Complete Lab Safety Questions</p> <p>Students will: ADV & GEN - Discuss class policies, procedures, & important locations around the room.</p> <p>Complete Lab Safety Escape Room.</p> <p>ADV: Watch Claim, Evidence, Reasoning Video. Complete Checkpoint NOS.1</p>	<p>Teacher designed class policies and procedures</p> <p>Lab Safety Escape Room</p> <p>Set up Remind & review log-in procedures for Schoology.</p>	<p>Review for Lab Safety Quiz Monday</p> <p>Acquire classroom supplies and have parents sign paperwork</p> <p>Virtual Assignment Due next Friday: Read It Lesson 1 Article & questions</p>	<p>Ability to stay on task and work within time constraints</p>	<p>Prerequisite Skills</p> <p>ACT Quality Core:</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p>

WEEK OF Sept. 14 - 18, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 9-14	<p>Demonstrate knowledge of lab safety rules and their purpose.</p> <p>Safely use lab equipment.</p> <p>Use appropriate lab equipment for measurement needed.</p>	<p>ADV & GEN BR: Complete Lab Safety Questions</p> <p>Students will:</p> <p>ADV & GEN: Complete Lab Safety Quiz; number pages in NB; make a title page & table of contents for Nature of Science Unit; complete Lab Equipment Stations</p>	<p>A+/LTF Lab Safety Quiz</p> <p>Lab Equipment Stations</p>	<p>Virtual Assignment Due Friday: Read It Lesson 1 Article & questions</p> <p>ADV: Print NOS Unit notes pp.6-16</p>	<p>Quiz; participation</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
WED 9-16	<p>Differentiate between observations & inferences.</p> <p>Explain the difference between quantitative & qualitative observations.</p> <p>Make observations & inferences of different picture scenarios.</p>	<p>ADV & GEN BR: Complete Scientific Tools Questions</p> <p>Students will:</p> <p>Discuss the difference between observations & inferences & take notes; discuss the difference between qualitative & quantitative observations & take notes; discuss how predictions are different than inferences; view National Geographic</p>	<p>National Geographic Pictures</p> <p>Man in Cast worksheet - obs/inf (general)</p> <p>Observation & Inference practice sheet - both</p> <p>Shark Worksheet - quant/qual (general)</p> <p>Spider Bite Article - quant/qual</p>	<p>Virtual Assignment Due Friday: Read It Lesson 1 Article & questions</p>	<p>Participation & practice</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI</p>

		Pictures and make observations & inferences; complete Observations & Inferences practice; complete Quantitative & Qualitative practice.	(advanced) A+//E3 Notes p.13			units for measurements. I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.
FR I 9 - 1 8	E-Learning Day Successfully log in to Schoology & complete assignments. Review observations & inferences; quantitative & qualitative observations. Practice measuring volume.	BR: Complete quantitative & qualitative questions. Students will: Complete Observation & Inference & Prediction practice. Practice measuring volume by completing Graduated Cylinders worksheet. Submit weekly virtual assignment Read It Lesson 1 questions.	Computer, laptop, tablet, etc. Schoology Log-In Practice activities	None	Read It Lesson 1 Questions	Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used. c. Collate, organize, and analyze data accurately and use techniques and equipment properly. d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation. f. Safely use laboratory equipment and techniques when conducting scientific investigations. I.A.2 b. Use appropriate SI units for measurements. I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 9 - 1 5	<p>Demonstrate knowledge of lab safety rules and their purpose.</p> <p>Safely use lab equipment.</p> <p>Use appropriate lab equipment for measurement needed.</p>	<p>ADV & GEN BR: Complete Questions</p> <p>Students will:</p> <p>ADV & GEN: Complete Lab Safety Quiz; number pages in NB; make a title page & table of contents for Nature of Science Unit; complete Lab Equipment Stations</p>	<p>A+/LTF Lab Safety Quiz</p> <p>Lab Equipment Stations</p>	<p>Virtual Assignment Due Friday: Read It Lesson 1 Article & questions</p> <p>ADV: Print NOS Unit notes pp.6-16</p>		<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community..</p>
T H U R 9 -	<p>Differentiate between observations & inferences.</p> <p>Explain the difference between quantitative & qualitative observations.</p>	<p>ADV & GEN BR: Complete Scientific Tools Questions</p> <p>Students will: Discuss the difference between</p>	<p>National Geographic Pictures</p> <p>Man in Cast worksheet - obs/inf (general)</p>	<p>Virtual Assignment Due Friday: Read It Lesson 1 Article & questions</p>	<p>Participation & practice</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and</p>

1 7	Make observations & inferences of different picture scenarios.	observations & inferences & take notes; discuss the difference between qualitative & quantitative observations & take notes; discuss how predictions are different than inferences; view National Geographic Pictures and make observations & inferences; complete Observations & Inferences practice; complete Quantitative & Qualitative practice.	<p>Observation & Inference practice sheet - both</p> <p>Shark Worksheet - quant/qual (general)</p> <p>Spider Bite Article - quant/qual (advanced)</p> <p>A+//E3 Notes p.13</p>			<p>analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
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WEEK OF Sept. 21 - 25, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 9-2-1	<p>Use appropriate lab equipment for measurement needed.</p> <p>Identify SI units for measurements and equipment.</p> <p>Correctly graph data from a data table.</p> <p>Differentiate between accuracy & precision.</p> <p>Correctly convert metric measurements.</p>	<p>ADV & GEN BR: Complete quantitative, qualitative, observation, & inference questions.</p> <p>Students will:</p> <p>GEN: Review E-Learning; complete Measurement Quick Lab; review graphing - take notes & practice.</p> <p>ADV: Discuss A+ notes pp.6-7 - metric system, SI units, metric conversions, accuracy & precision; watch video; complete Measurement Quick Lab; complete Metric Conversion worksheet.</p>	<p>Measurement Quick Lab</p> <p>Graphing notes</p> <p>Graphing practice</p> <p>Accuracy & Precision Bulls-eye</p> <p>Metric Conversion worksheet</p> <p>Video - Why Metric System Matters</p>	<p>Virtual Assignment Due Friday: Read It Lesson 3 Article & questions</p> <p>Complete any unfinished classwork</p> <p>ADV - review for Checkpoint NOS.2</p>	Participation; classwork	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
WED 9-2-3	<p>Differentiate between independent & dependent variables in an experiment.</p> <p>Define hypothesis, write a hypothesis for a given scenario, & identify what makes a good hypothesis.</p> <p>Collect & analyze data in an experiment in order to test a hypothesis.</p> <p>Draw conclusions from gathered data.</p> <p>Convert measurements using</p>	<p>GEN BR: Complete Graphing questions</p> <p>ADV BR: Complete Metric conversion questions</p> <p>Students will:</p> <p>GEN: Identify independent & dependent variables on the Graphing practice; complete Independent & Dependent card sort; take notes on hypothesis writing;</p>	<p>Graphing Practice</p> <p>IV & DV Card Sort</p> <p>Paper Towel Lab</p> <p>A+/E3 notes pp.8-9</p> <p>Video - Unit Conversion the Easy Way</p> <p>Conantucki Island sheet</p>	<p>Virtual Assignment Due Friday: Read It Lesson 3 Article & questions</p> <p>Complete any unfinished classwork</p> <p>ADV - review for Checkpoint NOS.4</p>	Participation, lab, class work	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific</p>

	dimensional analysis.	complete Paper Towel Lab. ADV: Complete Checkpoint NOS.2; discuss NOS notes pp.8-9; watch video on dimensional analysis; complete Unit Conversions - Conantucki Island sheet using I Do, We Do, You Do method; complete One & Two Step Conversions practice.	One & Two Step Conversions sheet			investigations. I.A.2 b. Use appropriate SI units for measurements. I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.
FR I 9 - 2 5	Discuss steps involved in the scientific method. Describe how the scientific method is used on a daily basis. Discuss the importance of communicating results of experiments.	GEN BR: Complete independent & dependent variable questions. ADV BR: Complete Dimensional Analysis questions Students will: GEN: Discuss & take notes on scientific method; watch video; read Scientific Processes Article & complete questions; complete Can You Spot the Scientific Method? Worksheet. ADV: Review dimensional analysis; discuss NOS notes pp.13-16 - scientific method, hypothesis, independent & dependent variables, data organization, analyzing data, drawing conclusions; complete Hypothesis Writing; complete Independent & Dependent variable card sort; complete Checkpoint NOS.4.	Scientific Method notes Video - The Scientific Method (Teacher's Pet) Scientific Processes Article Can You Spot the Scientific Method? A+/E3 notes pp.13-16 Hypothesis Writing IV & DV Card Sort Checkpoint NOS.4	Finish any unfinished classwork ADV: Review for Checkpoint NOS.3	Participation; classwork; Checkpoint; virtual assignment	Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used. c. Collate, organize, and analyze data accurately and use techniques and equipment properly. d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations. f. Safely use laboratory equipment and techniques when conducting scientific investigations. I.A.2 b. Use appropriate SI units for measurements. I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 9 - 2 2	<p>Use appropriate lab equipment for measurement needed.</p> <p>Identify SI units for measurements and equipment.</p> <p>Correctly graph data from a data table.</p>	<p>ADV & GEN BR: Complete quantitative, qualitative, observation, & inference questions.</p> <p>Students will:</p> <p>GEN: Review E-Learning; complete Measurement Quick Lab; review graphing - take notes & practice.</p> <p>ADV: Discuss A+ notes pp.6-7 - metric system, SI units, metric conversions, accuracy & precision; watch video; complete Measurement Quick Lab; complete Metric Conversion worksheet.</p>	<p>Measurement Quick Lab</p> <p>Graphing notes</p> <p>Graphing practice</p> <p>Accuracy & Precision Bulls-eye</p> <p>Metric Conversion worksheet</p> <p>Video - Why Metric System Matters</p>	<p>Virtual Assignment Due Friday: Read It Lesson 3 Article & questions</p> <p>Complete any unfinished classwork</p> <p>ADV - review for Checkpoint NOS.2</p>	Participation	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanation.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
T H U R 9 - 1 7	<p>Differentiate between independent & dependent variables in an experiment.</p> <p>Define hypothesis, write a hypothesis for a given scenario, & identify what makes a good hypothesis.</p> <p>Collect & analyze data in an experiment in order to test a hypothesis.</p> <p>Draw conclusions from gathered data.</p> <p>Convert measurements using</p>	<p>GEN BR: Complete Graphing questions</p> <p>ADV BR: Complete Metric conversion questions</p> <p>Students will:</p> <p>GEN: Identify independent & dependent variables on the Graphing practice; complete Independent & Dependent card sort; take notes on hypothesis writing; complete Paper</p>	<p>Graphing Practice</p> <p>IV & DV Card Sort</p> <p>Paper Towel Lab</p> <p>A+/E3 notes pp.8-9</p> <p>Video - Unit Conversion the Easy Way</p> <p>Conantucki Island sheet</p>	<p>Virtual Assignment Due Friday: Read It Lesson 3 Article & questions</p> <p>Complete any unfinished classwork</p> <p>ADV - review for Checkpoint NOS.4</p>	Participation, lab, class work	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific</p>

	dimensional analysis.	<p>Towel Lab.</p> <p>ADV: Complete Checkpoint NOS.2; discuss NOS notes pp.8-9; watch video on dimensional analysis; complete Unit Conversions - Conantucki Island sheet using I Do, We Do, You Do method; complete One & Two Step Conversions practice.</p>	One & Two Step Conversions sheet			<p>investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
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WEEK OF Sept. 28 - Oct. 2, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 9-28	<p>Discuss steps involved in the scientific method.</p> <p>Describe how the scientific method is used on a daily basis.</p> <p>Discuss the importance of communicating results of experiments.</p>	<p>GEN BR: Complete independent & dependent variable questions.</p> <p>ADV BR: Complete Dimensional Analysis questions</p> <p>Students will: GEN: Discuss & take notes on scientific method; watch video; read Scientific Processes Article & complete questions; complete Can You Spot the Scientific Method? Worksheet.</p> <p>ADV: Review dimensional analysis; discuss NOS notes pp.13-16 - scientific method, hypothesis, independent & dependent variables, data organization, analyzing data, drawing conclusions; complete Hypothesis Writing; complete Independent & Dependent variable card sort; complete Checkpoint NOS.4.</p>	<p>Scientific Method notes</p> <p>Video - The Scientific Method (Teacher's Pet)</p> <p>Scientific Processes Article</p> <p>Can You Spot the Scientific Method?</p> <p>A+/E3 notes pp.13-16</p> <p>Hypothesis Writing</p> <p>IV & DV Card Sort</p> <p>Checkpoint NOS.4</p>	<p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint NOS.3</p> <p>Virtual Assignment Due Friday: Analyzing Your Results Article & questions</p> <p>Study for Nature of Science Unit Test Monday, October 5</p>	<p>Participation; classwork; Checkpoint; virtual assignment</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
WED	<p>Analyze data and draw conclusions based on collected data.</p> <p>Identify independent and</p>	<p>GEN BR: Complete Scientific Method questions</p> <p>ADV BR:</p>	<p>Interpreting Data & Drawing Conclusions worksheet</p>	<p>Virtual Assignment Due Friday: Analyzing Your Results Article &</p>	<p>Participation; class work; Checkpoint NOS.3</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p>

9 - 3 0	dependent variables in an experiment from the data table.	<p>Complete Scientific Method questions</p> <p>Students will:</p> <p>GEN: Review scientific method; complete Interpreting Data & Drawing Conclusions activity; complete Study Guide for Nature of Science Unit Test; review Study Guide & correct mistakes; play a review game to prepare for test Monday.</p> <p>ADV: Complete Checkpoint NOS.3; discuss scientific method note pp.10-12: data, graphing, drawing conclusions; complete note interactions on pp.15-16 of NOS notes; review for test Monday.</p>	<p>Study Guide</p> <p>Checkpoint NOS.3</p>	<p>questions</p> <p>Study for Nature of Science Unit Test Monday, October 5</p>		<p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
F R I 1 0 - 2	<p>E-Learning Day</p> <p>Review lab equipment and for what each piece is used; identify independent & dependent variables in a given scenario; review graphing.</p>	<p>Students will:</p> <p>Complete bell ringer question</p> <p>Identifying Variables assignment</p> <p>Graphing question</p>	<p>Bell Ringer</p> <p>Identifying Variables</p> <p>Graphing</p>	<p>Virtual Assignment Due Friday: Analyzing Your Results Article & questions</p> <p>Study for Nature of Science Unit Test Monday, October 5</p>	<p>Virtual Assignment; Bell Ringer; Identifying Variables; Graphing</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 9 - 2 9	<p>Analyze data and draw conclusions based on collected data.</p> <p>Identify independent and dependent variables in an experiment from the data table.</p>	<p>GEN BR: Complete Scientific Method questions</p> <p>ADV BR: Complete Scientific Method questions</p> <p>Students will:</p> <p>GEN: Review scientific method; complete Interpreting Data & Drawing Conclusions activity; complete Study Guide for Nature of Science Unit Test; review Study Guide & correct mistakes; play a review game to prepare for test Monday.</p> <p>ADV: Complete Checkpoint NOS.3; discuss scientific method note pp.10-12: data, graphing, drawing conclusions; complete note interactions on pp.15-16 of NOS notes; review for test Monday.</p>	<p>Interpreting Data & Drawing Conclusions worksheet</p> <p>Study Guide</p> <p>Checkpoint NOS.3</p>	<p>Virtual Assignment Due Friday: Analyzing Your Results Article & questions</p> <p>Study for Nature of Science Unit Test Thursday, Oct. 1</p>	<p>Participation; class work; Checkpoint NOS.3</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
T H U R 1 O - 1	<p>Demonstrate knowledge of the nature of science.</p> <p>Use their own notebook to complete the notebook test.</p>	<p>GEN BR: Study quietly for 5-10 minutes</p> <p>ADV BR: Complete Checkpoint NOS.5</p> <p>Students will:</p> <p>GEN: Complete Nature of Science Unit Test; complete Nature of Science Notebook Test; make a new title</p>	<p>Teacher made Nature of Science Test</p> <p>A+/E3 Nature of Science Test</p> <p>Teacher made Notebook Test</p> <p>Assign Textbooks</p>	<p>Virtual Assignment Due Friday: Analyzing Your Results Article & questions</p>	<p>Checkpoint NOS.5; Test; Notebook Test</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p>

		<p>page & table of contents for Matter Unit; begin vocabulary assignment for Ch.8 Lessons 1-2.</p> <p>ADV: Study quietly for 5-10 minutes; complete Nature of Science Unit Test; complete Nature of Science Notebook Test; make a new title page & table of contents for Unit 1 - Matter.</p>				<p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
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WEEK OF Oct. 5 - 9, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 10-5	<p>Demonstrate knowledge of the nature of science.</p> <p>Use their own notebook to complete the notebook test.</p>	<p>GEN BR: Study quietly for 5-10 minutes</p> <p>ADV BR: Complete Checkpoint NOS.5</p> <p>Students will:</p> <p>GEN: Complete Nature of Science Unit Test; complete Nature of Science Notebook Test; make a new title page & table of contents for Matter Unit; begin vocabulary assignment for Ch.8 Lessons 1-2.</p> <p>ADV: Study quietly for 5-10 minutes; complete Nature of Science Unit Test; complete Nature of Science Notebook Test; make a new title page & table of contents for Unit 1 - Matter.</p>	<p>Teacher made Nature of Science Test</p> <p>A+/E3 Nature of Science Test</p> <p>Teacher made Notebook Test</p> <p>Assign Textbooks</p>	<p>Virtual Assignment Due Friday:</p> <p>Finish any unfinished classwork</p> <p>ADV: Print Unit 1 Notes</p>	<p>Checkpoint NOS.5; Test; Notebook Test</p>	<p>Prerequisite Skills/ACT Quality Core: I.A.1 b. Design experiments so that variables are controlled and appropriate numbers of trials are used.</p> <p>c. Collate, organize, and analyze data accurately and use techniques and equipment properly.</p> <p>d. Interpret results and draw conclusions, revising hypotheses as necessary and/or formulating additional questions or explanations.</p> <p>f. Safely use laboratory equipment and techniques when conducting scientific investigations.</p> <p>I.A.2 b. Use appropriate SI units for measurements.</p> <p>I.A.3 d. Explain why all scientific knowledge is subject to change as new evidence becomes available to the scientific community.</p>
WED 10-7	<p>Define matter and classify descriptions as matter or nonmatter.</p> <p>Differentiate states of matter based on molecular structure.</p> <p>Describe properties of each state of matter.</p> <p>Describe how the addition or</p>	<p>GEN BR: Complete NOS questions</p> <p>ADV BR: Complete NOS questions</p> <p>Students will:</p> <p>GEN: Review Nature of Science</p>	<p>Crash Course video - What's Matter</p> <p>Why Does Matter Matter? Article & questions</p> <p>PhET simulation - States of Matter Basics</p>	<p>Virtual Assignment Due Friday:</p> <p>Finish any unfinished classwork</p>	<p>Participation; class work; Checkpoint 1.1</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic</p>

	removal of thermal energy affects the state of matter.	tests; watch Crash Course video: What's Matter; read article "Why Does Matter Matter?" and complete questions; complete PhET Simulation - States of Matter Basics; complete a Venn Diagram to differentiate between states of matter; complete States of Matter worksheet.. ADV: Review Nature of Science tests; discuss Unit 1 notes pp.1-2 - matter, nonmatter, properties, physical properties; read Matter article and complete questions; complete Checkpoint 1.1; watch Tyler DeWitt video - Phase Changes; complete PhET Simulation - States of Matter Basics; complete Venn Diagram; complete Odd One Out - Changes in State.	Solid, Liquid, Gas Venn Diagram States of Matter worksheet A+/E3 Unit 1 Notes Matter Article Checkpoint 1.1 Tyler DeWitt video - Phase Changes Odd One Out			properties. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.
FR I 10-9	Differentiate between phases of matter. Identify phase changes based on movement of thermal energy. Define physical and chemical properties. Utilize physical and chemical properties to show how substances differ. Differentiate physical and chemical properties. Calculate density and manipulate the density formula to solve for mass and volume.	GEN BR: Complete States of Matter questions ADV BR: Complete States of Matter questions Students will: GEN: Discuss states of matter and complete Doodle Notes; watch Tyler DeWitt video - Phase Changes; complete Real Life Scenarios sheet; complete Odd One Out - Changes in State; complete State of Matter Task	Doodle Notes Tyler DeWitt video - Phase Changes Real Life Scenarios Odd One Out - Changes in State State of Matter Task Cards A+/E3 Checkpoint 1.1 A Cool Phase Change Lab	Virtual Assignment Due Finish any unfinished classwork	Participation; classwork	ACOS: 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is

		<p>Cards.</p> <p>ADV: Complete Checkpoint 1.2; complete A Cool Phase Change Lab; discuss Unit 1 notes pp.3-7 - physical and chemical properties; demonstrate a density column; calculate density utilizing mass & volume; complete Exploring Density sheet.</p>	<p>A+/E3 Unit 1 Notes</p> <p>Exploring Density sheet</p>			<p>added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
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GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 O - 8	<p>Define matter and classify descriptions as matter or nonmatter.</p> <p>Differentiate states of matter based on molecular structure.</p> <p>Describe properties of each state of matter.</p> <p>Describe how the addition or removal of thermal energy affects the state of matter.</p>	<p>GEN BR: Complete NOS questions</p> <p>ADV BR: Complete NOS questions</p> <p>Students will:</p> <p>GEN: Review Nature of Science tests; watch Crash Course video: What's Matter; read article "Why Does Matter Matter?" and complete questions; complete PhET Simulation - States of Matter Basics; complete a Venn Diagram to differentiate between states of matter; complete States of Matter worksheet.</p> <p>ADV: Review Nature of Science tests; discuss Unit 1 notes pp.1-2 - matter, nonmatter, properties, physical properties; read Matter article and</p>	<p>Crash Course video - What's Matter</p> <p>Why Does Matter Matter? Article & questions</p> <p>PhET simulation - States of Matter Basics Solid, Liquid, Gas Venn Diagram</p> <p>States of Matter worksheet</p> <p>A+/E3 Unit 1 Notes</p> <p>Matter Article</p> <p>Checkpoint 1.1</p> <p>Tyler DeWitt video - Phase Changes</p> <p>Odd One Out</p>	<p>Virtual Assignment Due Friday:</p> <p>Finish any unfinished classwork</p>	<p>Participation; class work; Checkpoint 1.1</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>

		complete questions; complete Checkpoint 1.1; watch Tyler DeWitt video - Phase Changes; complete PhET Simulation - States of Matter Basics; complete Venn Diagram; complete Odd One Out - Changes in State.				
THUR 10-8	<p>Differentiate between phases of matter.</p> <p>Identify phase changes based on movement of thermal energy.</p> <p>Define physical and chemical properties.</p> <p>Utilize physical and chemical properties to show how substances differ.</p> <p>Differentiate physical and chemical properties.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume.</p>	<p>GEN BR: Complete States of Matter questions</p> <p>ADV BR: Complete States of Matter questions</p> <p>Students will:</p> <p>GEN: Discuss states of matter and complete Doodle Notes; watch Tyler DeWitt video - Phase Changes; complete Real Life Scenarios sheet; complete Odd One Out - Changes in State; complete State of Matter Task Cards.</p> <p>ADV: Complete Checkpoint 1.2; complete A Cool Phase Change Lab; discuss Unit 1 notes pp.3-7 - physical and chemical properties; demonstrate a density column; calculate density utilizing mass & volume; complete Exploring Density sheet.</p>	<p>Doodle Notes</p> <p>Tyler DeWitt video - Phase Changes</p> <p>Real Life Scenarios</p> <p>Odd One Out - Changes in State</p> <p>State of Matter Task Cards</p> <p>A+/E3 Checkpoint 1.1</p> <p>A Cool Phase Change Lab A+/E3 Unit 1 Notes</p> <p>Exploring Density sheet</p>	<p>Virtual Assignment Due Friday:</p> <p>Finish any unfinished classwork</p>	Participation; classwork	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>

WEEK OF Oct. 12 - 16, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 10-12	<p>Describe how the addition or removal of thermal energy affects the state of matter.</p> <p>Identify and describe physical properties of matter.</p> <p>Identify and describe chemical properties of matter.</p> <p>Differentiate between physical and chemical changes in matter.</p>	<p>GEN BR: Complete Phase Change questions</p> <p>ADV BR: Complete Phase Change questions</p> <p>Students will: GEN: Complete A Cool Phase Change Lab; complete Show What You Know (changes in states of matter) worksheet. ADV: Complete Checkpoint 1.3; discuss Unit 1 Notes - physical & chemical properties & changes; complete Physical & Chemical Card Sort; complete Physical & Chemical Properties & Changes sheet.</p>	<p>A Cool Phase Change Lab</p> <p>Show What You Know</p> <p>A+/E3 Checkpoint 1.3</p> <p>Physical, Chemical, & Nuclear article</p> <p>A+/E3 Unit 1 Notes</p> <p>Physical & Chemical Card Sort</p> <p>Physical & Chemical Properties & Changes sheet</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 1.4</p>	<p>Bell Ringer; participation; classwork; Checkpoint 1.3</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
WED 10-14	<p>Identify and describe physical properties of matter.</p> <p>Identify and describe chemical properties of matter.</p> <p>Differentiate between physical and chemical changes in matter.</p>	<p>GEN BR: Complete Phase Change questions</p> <p>ADV BR: Complete Phase Change questions</p> <p>Students will: GEN: Discuss & complete Physical & Chemical Properties & Changes Doodle Notes; complete Physical & Chemical Card</p>	<p>Physical & Chemical Properties & Changes Doodle Notes</p> <p>Physical & Chemical Card Sort</p> <p>Physical & Chemical Situation cards</p> <p>Physical & Chemical Changes Lab</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Bell Ringer; participation; classwork; lab</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state</p>

		<p>Sort; complete Physical & Chemical Situation cards; complete Physical & Chemical Changes Lab; complete Physical & Chemical Properties & Changes sheet.</p> <p>ADV: Complete Checkpoint 1.4; complete Physical & Chemical Changes Lab; complete Chemical & Physical Changes color sheet; complete Physical & Chemical Situation Cards; complete Odd One Out - Physical & Chemical Changes.</p>	<p>Physical & Chemical Properties & Changes sheet</p> <p>A+/E3 Checkpoint 1.4</p> <p>Odd One Out - Physical & Chemical Changes</p>	<p>Moved to Friday</p> <p>Moved to Friday</p>		<p>of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
<p>F R I 1 0 - 1 6</p>	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p>	<p>GEN BR: Complete Physical & Chemical Changes questions</p> <p>ADV BR: Complete Physical & Chemical Changes questions</p> <p>Students will: GEN: Complete Physical & Chemical Situation cards; complete Physical & Chemical Changes Lab; discuss physical property of density; take notes on what density means, how to calculate it, irregular & regular objects; demonstrate a density column; complete Exploring Density worksheet; complete Density Exit Ticket. ADV: Complete Chemical &</p>	<p>Physical & Chemical Situation Cards</p> <p>Physical & Chemical Changes Lab</p> <p>Physical & Chemical Color sheet</p> <p>Odd One Out - Physical & Chemical Changes</p> <p>Density Notes</p> <p>Exploring Density worksheet</p> <p>Density Practice Problems</p> <p>A+/E3 Checkpoint 1.5</p> <p>A+/E3 Unit 1 Notes</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 1.5</p>	<p>Participation; classwork; Checkpoint 1.5; lab</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>

		Physical Changes color sheet; complete Physical & Chemical Situation Cards; complete Odd One Out - Physical & Chemical Changes; discuss Unit 1 Notes - density; discuss what density is, how to calculate it, regular & irregular objects; demonstrate a density column; complete Density Practice Problems; complete Exploring Density sheet.				
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CARDINAL

COURSE: 8th Grade ADV & GEN Science	TEACHER: Stacie Pruitt	PERIODS: 2, 4, 6
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	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 O - 1 3	Describe how the addition or removal of thermal energy affects the state of matter. Identify and describe physical properties of matter. Identify and describe chemical properties of matter. Differentiate between physical and chemical changes in matter.	GEN BR: Complete Phase Change questions ADV BR: Complete Phase Change questions Students will: GEN: Complete A Cool Phase Change Lab; complete Show What You Know (changes in states of matter) worksheet. ADV: Complete Checkpoint 1.3; read Physical, Chemical, & Nuclear article & answer questions; discuss Unit 1 Notes - physical & chemical properties & changes; complete Physical & Chemical Card Sort; complete Physical & Chemical Properties & Changes sheet.	A Cool Phase Change Lab Show What You Know A+/E3 Checkpoint 1.3 Physical, Chemical, & Nuclear article A+/E3 Unit 1 Notes Physical & Chemical Card Sort Physical & Chemical Properties & Changes sheet Chemical & Physical Changes color sheet	Virtual Assignment Due Friday Finish any unfinished classwork ADV: Review for Checkpoint 1.4	Bell Ringer; participation; classwork; Checkpoint 1.3	ACOS: 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties. 4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. 5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.

<p>T H U R 1 0 - 1 5</p>	<p>Identify and describe physical properties of matter.</p> <p>Identify and describe chemical properties of matter.</p> <p>Differentiate between physical and chemical changes in matter.</p>	<p>GEN BR: Complete Phase Change questions</p> <p>ADV BR: Complete Phase Change questions</p> <p>Students will:</p> <p>GEN: Discuss & complete Physical & Chemical Properties & Changes Doodle Notes; complete Physical & Chemical Card Sort; complete Physical & Chemical Situation cards; complete Physical & Chemical Changes Lab; complete Physical & Chemical Properties & Changes sheet.</p> <p>ADV: Complete Checkpoint 1.4; complete Physical & Chemical Changes Lab; complete Chemical & Physical Changes color sheet; complete Physical & Chemical Situation Cards; complete Odd One Out - Physical & Chemical Changes.</p>	<p>Physical & Chemical Properties & Changes Doodle Notes</p> <p>Physical & Chemical Card Sort</p> <p>Physical & Chemical Situation cards</p> <p>Physical & Chemical Changes Lab</p> <p>Physical & Chemical Properties & Changes sheet</p> <p>A+/E3 Checkpoint 1.4</p> <p>Chemical & Physical Changes color sheet</p> <p>Odd One Out - Physical & Chemical Changes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>Moved to Monday</p>	<p>Bell Ringer; participation; classwork; lab</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
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WEEK OF Oct. 19 - 23, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 10/19	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume</p>	<p>GEN BR: Complete Physical & Chemical Changes questions</p> <p>ADV BR: Complete Physical & Chemical Changes questions</p> <p>Students will: GEN: Complete Physical & Chemical Situation cards; complete Physical & Chemical Changes Lab; discuss physical property of density; take notes on what density means, how to calculate it, irregular & regular objects; demonstrate a density column; complete Exploring Density worksheet; complete Density Exit Ticket. ADV: Complete Chemical & Physical Changes color sheet; complete Physical & Chemical Situation Cards; complete Odd One Out - Physical & Chemical Changes; discuss Unit 1 Notes - density; discuss what density is, how to calculate it, regular & irregular objects;</p>	<p>Physical & Chemical Situation Cards</p> <p>Physical & Chemical Changes Lab</p> <p>Physical & Chemical Color sheet</p> <p>Odd One Out - Physical & Chemical Changes</p> <p>Density Notes</p> <p>Exploring Density worksheet</p> <p>Density Practice Problems</p> <p>A+/E3 Unit 1 Notes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN: Study for Vocabulary Quiz</p> <p>ADV: Review for Checkpoint 1.5</p> <p>STUDY FOR MATTER UNIT TEST</p>	<p>Participation; classwork</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>

		demonstrate a density column; complete Density Practice Problems; complete Exploring Density sheet.				
W E D 1 0 - 2 1	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume</p>	<p>GEN BR: Complete Physical & Chemical Changes questions</p> <p>ADV BR: Complete Physical & Chemical Changes questions</p> <p>Students will: GEN: Review Exploring Density sheet; practice reading volume of liquids in graduated cylinders; review calculating volume of an irregular object; complete Density Lab.</p> <p>ADV: Complete Checkpoint 1.5; review Exploring Density sheet; review reading graduated cylinders and calculating volume of an irregular object; complete Density Lab.</p>	<p>Exploring Density sheet</p> <p>Pictures of graduated cylinders with liquids</p> <p>Density Lab</p> <p>A+/E3 Checkpoint 1.5</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN: Study for Vocabulary Quiz</p> <p>ADV: Review for Checkpoint 1.6</p> <p>STUDY FOR MATTER UNIT TEST</p>	Bell Ringer; participation; Checkpoint; lab	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
F R I 1 0 - 2 3	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p> <p>Identify and describe physical properties of matter.</p> <p>Identify and describe chemical properties of matter.</p> <p>Differentiate between physical</p>	<p>GEN BR: Complete Density questions</p> <p>ADV BR: Complete Density questions</p> <p>Students will: GEN: Complete Ch. 8 Lesson 1 & 2 Vocabulary Quiz; complete Density Practice; complete Mass, Density, or Volume worksheet; Key Concept</p>	<p>Ch. 8 Lesson 1 & 2 Vocabulary Quiz</p> <p>Density Practice</p> <p>Mass, Density, or Volume worksheet</p> <p>Key Concept Builder Lesson 2 & 3</p> <p>What is Matter?</p> <p>Physical vs.</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>STUDY FOR MATTER UNIT TEST</p>	Participation; classwork; Checkpoint 1.6	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state</p>

<p>and chemical changes in matter.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume.</p> <p>Identify phase changes based on movement of thermal energy.</p> <p>Define physical and chemical properties.</p> <p>Utilize physical and chemical properties to show how substances differ.</p> <p>Define matter and classify descriptions as matter or nonmatter.</p> <p>Differentiate states of matter based on molecular structure.</p> <p>Describe properties of each state of matter.</p>	<p>Builder Lesson 2 & 3; complete Study Guide for Matter Unit Test.</p> <p>ADV: Complete Checkpoint 1.6; complete review sheets - What is Matter, Physical vs. Chemical, Key Concept Builder Lesson 2 & 3; play a game to review for Unit 1 Test - Matter.</p>	<p>Chemical Kahoot game</p>			<p>of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
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GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 O - 2 O	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume</p>	<p>GEN BR: Complete Physical & Chemical Changes questions</p> <p>ADV BR: Complete Physical & Chemical Changes questions</p> <p>Students will:</p> <p>GEN: Review Exploring Density sheet; practice reading volume of liquids in graduated cylinders; review calculating volume of an irregular object; complete Density Lab.</p> <p>ADV: Complete Checkpoint 1.5; review Exploring Density sheet; review reading</p>	<p>Exploring Density sheet</p> <p>Pictures of graduated cylinders with liquids</p> <p>Density Lab</p> <p>A+/E3 Checkpoint 1.5</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN: Study for Vocabulary Quiz</p> <p>ADV: Review for Checkpoint 1.6</p> <p>STUDY FOR MATTER UNIT TEST</p>	<p>Bell Ringer; participation; Checkpoint; lab</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if</p>

		graduated cylinders and calculating volume of an irregular object; complete Density Lab.				a chemical reaction has occurred.
T H U R 1 0 - 2 2	<p>Calculate volume of regular & irregular objects.</p> <p>Calculate density of a regular & irregular object.</p> <p>Differentiate between samples of matter based on the physical property of density.</p> <p>Identify and describe physical properties of matter.</p> <p>Identify and describe chemical properties of matter.</p> <p>Differentiate between physical and chemical changes in matter.</p> <p>Calculate density and manipulate the density formula to solve for mass and volume.</p> <p>Identify phase changes based on movement of thermal energy.</p> <p>Define physical and chemical properties.</p> <p>Utilize physical and chemical properties to show how substances differ.</p> <p>Define matter and classify descriptions as matter or nonmatter.</p> <p>Differentiate states of matter based on molecular structure.</p> <p>Describe properties of each state of matter.</p>	<p>GEN BR: Complete Density questions</p> <p>ADV BR: Complete Density questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 8 Lesson 1 & 2 Vocabulary Quiz; complete Density Practice; complete Mass, Density, or Volume worksheet; Key Concept Builder Lesson 2 & 3; complete Study Guide for Matter Unit Test.</p> <p>ADV: Complete Checkpoint 1.6; complete review sheets - What is Matter, Physical vs. Chemical, Key Concept Builder Lesson 2 & 3; play a game to review for Unit 1 Test - Matter.</p>	<p>Ch. 8 Lesson 1 & 2 Vocabulary Quiz</p> <p>Density Practice</p> <p>Mass, Density, or Volume worksheet</p> <p>Key Concept Builder Lesson 2 & 3</p> <p>What is Matter?</p> <p>Physical vs. Chemical Kahoot game</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>STUDY FOR MATTER UNIT TEST</p>	<p>Participation; classwork; Checkpoint 1.6</p>	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>

WEEK OF Oct. 26 - 30, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 10-26	Demonstrate knowledge of the Matter Unit and concepts covered.	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will: GEN: Study quietly for 5-10 minutes and ask any review questions; complete Matter Unit Test; complete Matter NB Test; complete #whatIwishmyteach erknew assignment; make a new title page & table of contents for Atoms Unit; complete vocabulary sheets for Ch. 9 Lessons 1 & 2 - Ch. 10 Lessons 1 & 2. ADV: Study quietly for 5-10 minutes and ask any review questions; complete Unit 1 Test; complete Unit 1 NB Test; complete #whatIwishmyteach erknew assignment; make a new title page & table of contents for Unit 2.</p>	<p>Matter Unit Test</p> <p>A+/E3 Unit 1 Test</p> <p>Teacher made Notebook Test</p> <p>#whatIwishmyteach erknew assignment</p> <p>Vocabulary Sheets</p>	<p>Virtual Assignment Due Friday</p> <p>ADV: PRINT UNIT 2 NOTES</p>	Test & NB Test	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
WED 10-28	<p>Discuss different scientists and their contribution to the atomic theory.</p> <p>Differentiate between atomic discoveries, who made the</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter</p>	<p>Just How Small is an Atom video</p> <p>TED Talk - 24,000 year Search for the</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished</p>	Bell Ringer; participation; lab	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and</p>

O - 2 8	<p>discovery, and when the discovery occurred.</p> <p>Label the parts of an atom and describe the mass and charge of each part.</p>	<p>review questions</p> <p>Students will:</p> <p>GEN: Watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete Key Concept Builder 9.1; complete Parts of an Atom Doodle Notes.</p> <p>ADV: Discuss Unit 2 notes pp.3-4; watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete A+/E3 Undiscovered Country Lab.</p>	<p>Atom</p> <p>Cathode Ray Tube video</p> <p>Atomic Theory Timeline</p> <p>Key Concept Builder 9.1</p> <p>Parts of an Atom Doodle Notes</p> <p>Undiscovered Country Lab</p>	<p>classwork</p> <p>ADV: Review for Checkpoint 2.2</p>		<p>characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
F R I 1 0 - 3 0	<p>Identify the parts of an atom, their location, mass, and charge.</p> <p>Describe how atoms of different elements differ.</p> <p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in an element box from the Periodic Table of Elements.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will:</p> <p>GEN: Read “An Atom Apart” article & complete questions; complete Atoms Family PowerPoint and notes; complete Elements Doodle Notes; complete Atomic Math Challenge.</p> <p>ADV: Complete Checkpoint 2.2; read “An Atom Apart” article & complete questions; discuss Unit 2 notes pp.1-2, & 6; complete Atoms Family PowerPoint & notes; label an Element Box from Periodic Table of</p>	<p>An Atom Apart Article & questions</p> <p>Atoms Family PowerPoint & Notes</p> <p>Elements Doodle Notes</p> <p>Atomic Math Challenge</p> <p>A+/E3 Checkpoint 2.2</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p>	<p>Participation; classwork; virtual assignment</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

Elements; complete Atomic Math Challenge.

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 0 - 2 7	Demonstrate knowledge of the Matter Unit and concepts covered.	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will: GEN: Study quietly for 5-10 minutes and ask any review questions; complete Matter Unit Test; complete Matter NB Test; complete #whatIwishmyteach erknew assignment; make a new title page & table of contents for Atoms Unit; complete vocabulary sheets for Ch. 9 Lessons 1 & 2 - Ch. 10 Lessons 1 & 2. ADV: Study quietly for 5-10 minutes and ask any review questions; complete Unit 1 Test; complete Unit 1 NB Test; complete #whatIwishmyteach erknew assignment; make a new title page & table of contents for Unit 2.</p>	<p>Matter Unit Test</p> <p>A+/E3 Unit 1 Test</p> <p>Teacher made Notebook Test</p> <p>#whatIwishmyteach erknew assignment</p> <p>Vocabulary Sheets</p>	<p>Virtual Assignment Due Friday</p> <p>ADV: PRINT UNIT 2 NOTES</p>	Test & NB Test	<p>ACOS:</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties.</p> <p>4. Design and conduct an experiment to determine change in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> <p>5. Observe and analyze characteristic properties of substances before and after the substances combine to determine if a chemical reaction has occurred.</p>
T H U R	<p>Discuss different scientists and their contribution to the atomic theory.</p> <p>Differentiate between atomic discoveries, who made the</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review</p>	<p>Just How Small is an Atom video</p> <p>TED Talk - 24,000 year Search for the</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished</p>	Bell Ringer; participation; lab	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and</p>

1 0 - 2 9	<p>discovery, and when the discovery occurred.</p> <p>Label the parts of an atom and describe the mass and charge of each part.</p>	<p>questions</p> <p>Students will:</p> <p>GEN: Watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete Key Concept Builder 9.1; complete Parts of an Atom Doodle Notes.</p> <p>ADV: Discuss Unit 2 notes pp.3-4; watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete A+/E3 Undiscovered Country Lab.</p>	<p>Atom</p> <p>Cathode Ray Tube video</p> <p>Atomic Theory Timeline</p> <p>Key Concept Builder 9.1</p> <p>Parts of an Atom Doodle Notes</p> <p>Undiscovered Country Lab</p>	<p>classwork</p> <p>ADV: Review for Checkpoint 2.2</p>		<p>characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Nov. 2-6, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 1 - 2	<p>Discuss different scientists and their contribution to the atomic theory.</p> <p>Differentiate between atomic discoveries, who made the discovery, and when the discovery occurred.</p> <p>Label the parts of an atom and describe the mass and charge of each part.</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will:</p> <p>GEN: Watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete Key Concept Builder 9.1; complete Parts of an Atom Doodle Notes.</p> <p>ADV: Discuss Unit 2 notes pp.3-4; watch videos on the size of an atom and the development of the atomic theory; organize a timeline of atomic theory; complete A+/E3 Undiscovered Country Lab.</p>	<p>Just How Small is an Atom video</p> <p>TED Talk - 24,000 year Search for the Atom</p> <p>Cathode Ray Tube video</p> <p>Atomic Theory Timeline</p> <p>Key Concept Builder 9.1</p> <p>Parts of an Atom Doodle Notes</p> <p>Undiscovered Country Lab</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 2.2</p>	<p>Bell Ringer; participation; lab</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
WED 1 1 - 4	<p>Identify the parts of an atom, their location, mass, and charge.</p> <p>Describe how atoms of different elements differ.</p> <p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in an element box from the Periodic Table of Elements.</p> <p>Calculate the number of</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will:</p> <p>GEN: Read "An Atom Apart" article & complete questions; complete Atoms Family PowerPoint and</p>	<p>An Atom Apart Article & questions</p> <p>Atoms Family PowerPoint & Notes</p> <p>Elements Doodle Notes</p> <p>Atomic Math Challenge</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 2.1</p>	<p>Participation; classwork; virtual assignment; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim</p>

	<p>protons, electrons, and neutrons in an atom of any given element.</p>	<p>notes; complete Elements Doodle Notes; complete Atomic Math Challenge. ADV: Complete Checkpoint 2.2; read “An Atom Apart” article & complete questions; discuss Unit 2 notes pp.1-2, & 6; complete Atoms Family PowerPoint & notes; label an Element Box from Periodic Table of Elements; complete Atomic Math Challenge.</p>	<p>A+/E3 Checkpoint 2.2</p>			<p>that one pure substance can be distinguished from another based on characteristic properties</p>
<p>FRI 1 1 - 6</p>	<p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p> <p>Describe the organization of the Periodic Table of Elements and how it has changed as new information was discovered.</p>	<p>GEN BR: Complete parts of an atom questions</p> <p>ADV BR: Complete parts of an atom questions</p> <p>Students will: GEN: Review parts of an atom, their location, charges, and how to calculate number of parts of an atom; complete Atoms Chart & Diagram; complete Round the Atomic Mass; watch video on the organization & development of the Periodic Table of Elements; complete Color the Periodic Table activity. ADV: Complete Checkpoint 2.1; review parts of an atom, their location, charges, and how to calculate number of parts of an atom; complete Round the Atomic Mass; watch video on the organization & development of the Periodic Table of</p>	<p>Atoms Chart & Diagram</p> <p>Round the Atomic Mass</p> <p>Color the Periodic Table</p> <p>TED Talk - Genius of Mendeleev’s Periodic Table</p> <p>A+/E3 Checkpoint 2.1</p> <p>It’s in the Cards Lab</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 2.4</p>	<p>Participation; classwork; virtual assignment; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		Elements; complete Color the Periodic Table activity; complete It's in the Cards lab.				
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GRAY

COURSE: 8th Grade ADV & GEN Science	TEACHER: Stacie Pruitt	PERIODS: 1, 3, 5
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	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 1 - 3	<p>Identify the parts of an atom, their location, mass, and charge.</p> <p>Describe how atoms of different elements differ.</p> <p>Label an element box from the Periodic Table of Elements.</p> <p>Describe the information in an element box from the Periodic Table of Elements.</p> <p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p>	<p>GEN BR: Complete matter review questions</p> <p>ADV BR: Complete matter review questions</p> <p>Students will: GEN: Read “An Atom Apart” article & complete questions; complete Atoms Family PowerPoint and notes; complete Elements Doodle Notes; complete Atomic Math Challenge.</p> <p>ADV: Complete Checkpoint 2.2; read “An Atom Apart” article & complete questions; discuss Unit 2 notes pp.1-2, & 6; complete Atoms Family PowerPoint & notes; label an Element Box from Periodic Table of Elements; complete Atomic Math Challenge.</p>	<p>An Atom Apart Article & questions</p> <p>Atoms Family PowerPoint & Notes</p> <p>Elements Doodle Notes</p> <p>Atomic Math Challenge</p> <p>A+/E3 Checkpoint 2.2</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 2.1</p>	<p>Participation; classwork; virtual assignment; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T H U R 1 1 - 5	<p>Calculate the number of protons, electrons, and neutrons in an atom of any given element.</p> <p>Describe the organization of the Periodic Table of Elements and how it has changed as new information was discovered.</p>	<p>GEN BR: Complete parts of an atom questions</p> <p>ADV BR: Complete parts of an atom questions</p> <p>Students will: GEN: Review parts of an atom, their location, charges,</p>	<p>Atoms Chart & Diagram</p> <p>Round the Atomic Mass</p> <p>Color the Periodic Table</p> <p>TED Talk - Genius of</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>ADV: Review for Checkpoint 2.4</p>	<p>Participation; classwork; virtual assignment; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out</p>

		<p>and how to calculate number of parts of an atom; complete Atoms Chart & Diagram; complete Round the Atomic Mass; watch video on the organization & development of the Periodic Table of Elements; complete Color the Periodic Table activity.</p> <p>ADV: Complete Checkpoint 2.1; review parts of an atom, their location, charges, and how to calculate number of parts of an atom; complete Round the Atomic Mass; watch video on the organization & development of the Periodic Table of Elements; complete Color the Periodic Table activity; complete It's in the Cards lab.</p>	<p>Mendeleev's Periodic Table</p> <p>A+/E3 Checkpoint 2.1</p> <p>It's in the Cards Lab</p>			<p>investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Nov. 9-13, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 11-9	<p>Define and describe isotopes.</p> <p>Calculate the number of protons, electrons, and neutrons of an isotope.</p> <p>Differentiate between neutral atoms and isotopes.</p> <p>Describe how to identify isotopes.</p>	<p>GEN BR: Complete element box questions</p> <p>ADV BR: Complete element box questions</p> <p>Students will:</p> <p>GEN: Complete Atomic Structure Review & Information about Atoms; watch video on Isotopes and complete video sheet; calculate protons, electrons, & neutrons of an isotope; practice writing & identifying isotopes; complete Isotopes Practice sheet.</p> <p>ADV: Complete Checkpoint 2.4; complete Atomic Structure Review & Information about Atoms; discuss Unit 2 notes p.7; watch video on Isotopes and complete video sheet; calculate protons, electrons, & neutrons of an isotope; practice writing & identifying isotopes; complete Isotopes Practice & Isotopes Practice Set.</p>	<p>Atomic Structure Review</p> <p>Information about Atoms</p> <p>Tyler DeWitt video - Isotopes</p> <p>Isotopes video sheet</p> <p>Isotopes Practice</p> <p>A+/E3 Unit 2 Notes</p> <p>A+/E3 Checkpoint 2.4</p> <p>Isotopes Practice Set</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Bell Ringer; participation; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

W E D 1 1 - 1 1 1	Veteran's Day					
F R I 1 1 - 1 1 3	Differentiate between metals, nonmetals, and metalloids. Classify a substance as a metal, nonmetal, or metalloid based on its properties. Locate metals, nonmetals, and metalloids on a Periodic Table of Elements.	GEN BR: Complete parts of an atom calculation questions ADV BR: Complete parts of an atom calculation questions Students will: GEN: Discuss and take notes on the properties of metals, nonmetals, and metalloids; watch video on properties of elements; complete Periodic Table Scavenger Hunt; complete Metals, Nonmetals, and Metalloids sheet; complete virtual assignment. ADV: Discuss Unit 2 notes - properties of elements; differentiate between types of elements; make a Venn Diagram on the properties of metals, nonmetals, & metalloids; discuss & take notes on how to draw a Bohr model of an atom; practice drawing Bohr models.	Metals, Nonmetals, & Metalloids video - by Ysci Periodic Table Scavenger Hunt Metals, Nonmetals, & Metalloids sheet A+/E3 Unit 2 Notes	Virtual Assignment Due Finish any unfinished classwork	Participation; classwork; virtual assignment	1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 1 - 1 O	Define and describe isotopes.	GEN BR: Complete element box questions ADV BR: Complete element box questions Students will: GEN: Complete Atomic Structure Review & Information about Atoms; watch video on Isotopes and complete video sheet; calculate protons, electrons, & neutrons of an isotope; practice writing & identifying isotopes; complete Isotopes Practice sheet. ADV: Complete Checkpoint 2.4; complete Atomic Structure Review & Information about Atoms; discuss Unit 2 notes p.7; watch video on Isotopes and complete video sheet; calculate protons, electrons, & neutrons of an isotope; practice writing & identifying isotopes; complete Isotopes Practice & Isotopes Practice Set.	Atomic Structure Review	Virtual Assignment Due Friday Finish any unfinished classwork	Bell Ringer; participation; Checkpoint	1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties
	Calculate the number of protons, electrons, and neutrons of an isotope.		Information about Atoms			
	Differentiate between neutral atoms and isotopes.		Isotopes video sheet			
	Describe how to identify isotopes.		Isotopes Practice			
			A+/E3 Checkpoint 2.4			
			Isotopes Practice Set			
T H U R	Differentiate between metals, nonmetals, and metalloids. Classify a substance as a metal, nonmetal, or metalloid based	GEN BR: Complete parts of an atom calculation questions	Metals, Nonmetals, & Metalloids video - by Ysci	Virtual Assignment Due Friday Finish any	Participation; classwork; virtual assignment	1. Analyze patterns within the periodic table to construct models that illustrate the structure

<p>1 1 - 1 2</p>	<p>on its properties. Locate metals, nonmetals, and metalloids on a Periodic Table of Elements.</p>	<p>ADV BR: Complete parts of an atom calculation questions Students will: GEN: Discuss and take notes on the properties of metals, nonmetals, and metalloids; watch video on properties of elements; complete Periodic Table Scavenger Hunt; complete Metals, Nonmetals, and Metalloids sheet; complete virtual assignment. ADV: Discuss Unit 2 notes - properties of elements; differentiate between types of elements; make a Venn Diagram on the properties of metals, nonmetals, & metalloids; discuss & take notes on how to draw a Bohr model of an atom; practice drawing Bohr models.</p>	<p>Periodic Table Scavenger Hunt Metals, Nonmetals, & Metalloids sheet A+/E3 Unit 2 Notes</p>	<p>unfinished classwork</p>		<p>composition and characteristics of atoms and simple and complex molecules 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Nov. 16-20, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 11/16	<p>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Review Atoms Unit.</p>	<p>GEN BR: Complete isotope calculation questions</p> <p>ADV BR: Complete isotope calculation questions</p> <p>Students will:</p> <p>GEN: Complete Ch.9 Vocabulary Quiz; take notes on how to draw Bohr models; practice drawing Bohr models; complete Bohr Diagram Sheet; complete Which Atom is Which?; complete Using the Periodic Table.</p> <p>ADV: Complete Checkpoint 2.5; review drawing Bohr models; complete Which is Atom is Which?; complete CSI Periodic Table activity; complete Using the Periodic Table, Atomic Structure, Isotope ID Practice, & Atoms & Isotopes; play Kahoot to review for test.</p>	<p>Ch. 9 Vocab Quiz</p> <p>Bohr Diagram worksheet</p> <p>Which Atom is Which?</p> <p>Using the Periodic Table</p> <p>A+/E3</p> <p>Checkpoint 2.5</p> <p>CSI Periodic Table</p> <p>Atomic Structure</p> <p>Isotope ID Practice</p> <p>Atoms & Isotopes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN - Study for Ch. 10 Vocab Quiz Wednesday</p> <p>ADV - Study for Test Wednesday & organize NB</p>	<p>Bell Ringer; participation; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

W E D 1 1 - 1 8	<p>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Review Atoms Unit.</p>	<p>GEN BR: Complete metals, nonmetals, & metalloid questions</p> <p>ADV BR: Complete metals, nonmetals, & metalloid questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 10 Vocabulary Quiz; complete CSI Periodic Table activity; complete Atomic Structure & Isotope ID Practice.</p> <p>ADV: Complete Checkpoint 2.6; complete Unit 2 Test; complete Unit 2 NB Test; make a new title page & TOC for Unit 3.</p>	<p>Ch. 10 Vocab Quiz</p> <p>CSI Periodic Table</p> <p>Atomic Structure</p> <p>Isotope ID Practice</p> <p>A+/E3</p> <p>Checkpoint 2.6</p> <p>Atomic Structure</p> <p>Isotope ID Practice</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Quiz; participation; Unit 2 Test; NB Test</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
F R I 1 1 - 2 0	<p>Review Atoms Unit.</p> <p>Define valence electrons and describe how the columns on a periodic table relate to them.</p> <p>Utilize the periodic table to determine the number of valence electrons in an atom of an element.</p>	<p>GEN BR: Complete periodic table questions</p> <p>ADV BR: Complete periodic table questions</p> <p>Students will:</p> <p>GEN: Complete Atoms & Isotopes worksheet; complete Study Guide for Atoms Test; play Kahoot to review for test.</p> <p>ADV: Complete Periodic Table Element cards activity; make flashcards of 45 common element names & symbols; complete Atoms Task Cards; discuss valence electrons & octet rule; add number of valence electrons to student periodic table.</p>	<p>Atoms & Isotopes worksheet</p> <p>Atoms Study Guide</p> <p>Periodic Table Element cards</p> <p>45 Common Elements List</p> <p>Atoms Task Cards</p>	<p>Virtual Assignment Due</p> <p>Finish any unfinished classwork</p> <p>GEN: Study for Atoms Unit Test & organize NB for Atoms NB Test Tuesday.</p> <p>ADV: Print Unit 3 Notes</p>	<p>Participation; classwork; virtual assignment</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 1 - 1 7	<p>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Review Atoms Unit.</p>	<p>GEN BR: Complete isotope calculation questions</p> <p>ADV BR: Complete isotope calculation questions</p> <p>Students will:</p> <p>GEN: Complete Ch.9 Vocabulary Quiz; take notes on how to draw Bohr models; practice drawing Bohr models; complete Bohr Diagram Sheet; complete Which Atom is Which?; complete Using the Periodic Table.</p> <p>ADV: Complete Checkpoint 2.5; review drawing Bohr models; complete Which is Atom is Which?; complete CSI Periodic Table activity; complete Using the Periodic Table, Atomic Structure, Isotope ID Practice, & Atoms & Isotopes; play Kahoot to review for test.</p>	<p>Ch. 9 Vocab Quiz</p> <p>Bohr Diagram worksheet</p> <p>Which Atom is Which?</p> <p>Using the Periodic Table</p> <p>A+/E3</p> <p>Checkpoint 2.5</p> <p>CSI Periodic Table</p> <p>Atomic Structure</p> <p>Isotope ID Practice</p> <p>Atoms & Isotopes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN - Study for Ch. 10 Vocab Quiz Thursday</p> <p>ADV - Study for Test Thursday & organize NB</p>	<p>Bell Ringer; participation; Checkpoint</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T H U R 1 1 -	<p>Utilize the periodic table to draw Bohr models of atoms.</p> <p>Utilize a Bohr model and periodic table to identify atoms of elements.</p> <p>Review Atoms Unit.</p>	<p>GEN BR: Complete metals, nonmetals, & metalloid questions</p> <p>ADV BR: Complete Bohr model questions</p>	<p>Ch. 10 Vocab Quiz</p> <p>CSI Periodic Table</p> <p>Atomic Structure</p> <p>Isotope ID Practice</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Quiz; participation; Unit 2 Test; NB Test</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and</p>

1 9		<p>Students will:</p> <p>GEN: Complete Ch. 10 Vocabulary Quiz; complete CSI Periodic Table activity; complete Atomic Structure & Isotope ID Practice.</p> <p>ADV: Complete Checkpoint 2.6; complete Unit 2 Test; complete Unit 2 NB Test; make a new title page & TOC for Unit 3.</p>	<p>A+/E3 Checkpoint 2.6 Atomic Structure Isotope ID Practice</p>			<p>complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Nov. 30- Dec. 4, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 1 - 3 0	<p>Review Atoms Unit.</p> <p>Define valence electrons and describe how the columns on a periodic table relate to them.</p> <p>Utilize the periodic table to determine the number of valence electrons in an atom of an element.</p>	<p>GEN BR: Complete periodic table questions</p> <p>ADV BR: Complete periodic table questions</p> <p>Students will: GEN: Complete Atoms & Isotopes worksheet; complete Study Guide for Atoms Test; play Kahoot to review for test.</p> <p>ADV: Complete Periodic Table Element cards activity; make flashcards of 45 common element names & symbols; complete Atoms Task Cards; discuss valence electrons & octet rule; add number of valence electrons to student periodic table.</p>	<p>Atoms & Isotopes worksheet</p> <p>Atoms Study Guide</p> <p>Periodic Table Element cards</p> <p>45 Common Elements List</p> <p>Atoms Task Cards</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>GEN: Study for Atoms Unit Test & organize NB for Atoms NB Test Wednesday.</p> <p>ADV: Print Unit 3 Notes</p>	Participation; classwork	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
WED 1 2 - 2	<p>Demonstrate knowledge of atoms and the periodic table.</p> <p>Describe the octet rule and how it affects bonding of atoms.</p> <p>Utilize the periodic table to draw Lewis structures of atoms.</p>	<p>GEN BR: Complete Bohr model questions</p> <p>ADV BR: Complete questions</p> <p>Students will: GEN: Complete Atoms Unit Test and Atoms Notebook Test; make a new title page & table of contents for Bonding unit;</p>	<p>Atoms Unit Test</p> <p>Atoms NB Test</p> <p>Element Flashcard List</p> <p>Sweet 16 Periodic Table Tourney</p> <p>Chris Bozeman video - Drawing Lewis Dot Diagrams</p> <p>Lewis Structure Notes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	Test, NB Test; participation	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished</p>

		<p>complete Ch. 11 Vocabulary; begin making Element Flashcards.</p> <p>ADV: Complete Sweet 16 Periodic Table Tourney; discuss Octet rule & valence electrons & how they affect bonding of atoms; watch video; complete Lewis Structure Notes, Review, & Periodic Table; complete Periodic Table Basics Activity.</p>	<p>Lewis Structure Review</p> <p>Periodic Table Lewis Structures</p> <p>A+/E3 Unit 3 Notes</p> <p>A+/E3 Periodic Table Basics Activity</p>			<p>from another based on characteristic properties</p>
<p>FRI</p> <p>1 2 - 4</p>	<p>Describe the octet rule and how it affects bonding of atoms.</p> <p>Utilize the periodic table to draw Lewis structures of atoms.</p> <p>Determine if an atom is an ion.</p> <p>Describe how atoms become charged particles and whether the charge is positive or negative.</p> <p>Define ionic bonding and what elements form this bond.</p> <p>Describe how an ionic bond forms and demonstrate the bond through Lewis Dot Diagrams.</p>	<p>GEN BR: Complete Bohr model questions</p> <p>ADV BR: Complete bonding questions</p> <p>Students will:</p> <p>GEN: Discuss Octet rule & valence electrons & how they affect bonding of atoms using Periodic Table Notes sheet; watch video; complete Lewis Structure Notes, Review, & Periodic Table; watch video and complete guided notes on ionic bonding.</p> <p>ADV: Complete Chemical Compounds Article; discuss Unit 3 notes pp. 4-5,7; define cation/anion; watch video on ionic bonding; label periodic table with oxidation states; complete Bonding Basics Ionic; complete Is it an Ion?; watch video - Ionic Bonding Pt.2;</p>	<p>Periodic Table Notes sheet</p> <p>Valence Electron sheet</p> <p>Lewis Structure Notes</p> <p>Lewis Structure Review</p> <p>Lewis Structure Periodic Table</p> <p>Is it an Ion?</p> <p>Tyler DeWitt videos - Intro to Ionic Bonding & Ionic Bonding Pt. 2</p> <p>A+/E3 Unit 3 Notes</p> <p>Bonding Basics Ionic</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		utilize Lewis structures to demonstrate ionic bonding; discuss & take notes on how to write ionic formulas using criss-cross method; discuss naming ionic compounds.				
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GRAY

COURSE: 8th Grade ADV & GEN Science **TEACHER:** Stacie Pruitt **PERIODS:** 1, 3, 5

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 2 - 1	<p>Demonstrate knowledge of atoms and the periodic table.</p> <p>Describe the octet rule and how it affects bonding of atoms.</p> <p>Utilize the periodic table to draw Lewis structures of atoms.</p>	<p>GEN BR: Complete Bohr model questions</p> <p>ADV BR: Complete Bohr model questions</p> <p>Students will:</p> <p>GEN: Complete Atoms Unit Test and Atoms Notebook Test; make a new title page & table of contents for Bonding unit; complete Ch. 11 Vocabulary; begin making Element Flashcards.</p> <p>ADV: Complete Sweet 16 Periodic Table Tourney; discuss Octet rule & valence electrons & how they affect bonding of atoms; watch video; complete Lewis Structure Notes, Review, & Periodic Table; complete Periodic Table Basics Activity.</p>	<p>Atoms Unit Test</p> <p>Atoms NB Test</p> <p>Element Flashcard List</p> <p>Sweet 16 Periodic Table Tourney</p> <p>Chris Bozeman video - Drawing Lewis Dot Diagrams</p> <p>Lewis Structure Notes</p> <p>Lewis Structure Review</p> <p>Periodic Table Lewis Structures</p> <p>A+/E3 Unit 3 Notes</p> <p>A+/E3 Periodic Table Basics Activity</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	Test, NB Test; participation	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T	Describe the octet rule and	GEN BR: Complete	Periodic Table	Virtual	Participation;	1. Analyze patterns

H U R 1 2 - 3	<p>how it affects bonding of atoms.</p> <p>Utilize the periodic table to draw Lewis structures of atoms.</p> <p>Determine if an atom is an ion.</p> <p>Describe how atoms become charged particles and whether the charge is positive or negative.</p> <p>Define ionic bonding and what elements form this bond.</p> <p>Describe how an ionic bond forms and demonstrate the bond through Lewis Dot Diagrams.</p>	<p>Bohr model questions</p> <p>ADV BR: Complete bonding questions</p> <p>Students will:</p> <p>GEN: Discuss Octet rule & valence electrons & how they affect bonding of atoms using Periodic Table Notes sheet; watch video; complete Lewis Structure Notes, Review, & Periodic Table; watch video and complete guided notes on ionic bonding.</p> <p>ADV: Complete Chemical Compounds Article; discuss Unit 3 notes pp. 4-5,7; define cation/anion; watch video on ionic bonding; label periodic table with oxidation states; complete Bonding Basics Ionic; complete Is it an Ion?; watch video - Ionic Bonding Pt.2; utilize Lewis structures to demonstrate ionic bonding; discuss & take notes on how to write ionic formulas using criss-cross method; discuss naming ionic compounds.</p>	<p>Notes sheet</p> <p>Valence Electron sheet</p> <p>Lewis Structure Notes</p> <p>Lewis Structure Review</p> <p>Lewis Structure Periodic Table</p> <p>Is it an Ion?</p> <p>Tyler DeWitt videos - Intro to Ionic Bonding & Ionic Bonding Pt. 2</p> <p>A+/E3 Unit 3 Notes</p> <p>Bonding Basics Ionic</p>	<p>Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>classwork</p>	<p>within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Dec. 7 - 11, 2020

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 2 - 7	<p>Define valence electrons and describe how the columns on a periodic table relate to them.</p> <p>Utilize the periodic table to determine the number of valence electrons in an atom of an element.</p> <p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p> <p>Describe polyatomic ions and their charges.</p>	<p>GEN BR: Complete valence electrons questions</p> <p>ADV BR: Complete valence electrons questions</p> <p>Students will: GEN: Watch video What is an Ion? & complete Is it an Ion? worksheet; watch Ionic Bonding videos & complete Bonding Basics - Ionic; write ionic formulas & name ionic compounds using criss-cross method; complete Writing Ionic Formulas & Naming Compounds worksheet. ADV: Watch Ionic Bonding Part 2 & 3 finish Bonding Basics - Ionic; Writing Ionic Formulas & Naming Compounds; utilize criss-cross method to write formulas; discuss properties of ionic compounds; watch video of alkali metals in water; discuss polyatomic ions & practice naming & writing of compounds with them; introduce Covalent Bonding.</p>	<p>Video - What is an Ion? - Tyler DeWitt</p> <p>Is it an Ion? Worksheet</p> <p>Video - Introduction to Ionic Bonding - Tyler Dewitt</p> <p>Video - Ionic Bonding Part 2 - Tyler DeWitt</p> <p>Video - Ionic Bonding Part 3 - Tyler DeWitt</p> <p>Bonding Basics - Ionic</p> <p>Writing Ionic Formulas & Naming Compounds</p> <p>Video - Alkali Metals in Water</p> <p>Bonding Basics - Covalent</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

<p>W E D 1 2 - 9</p>	<p>Utilize the criss-cross method to write ionic formulas.</p> <p>Name ionic compounds based on their formula.</p> <p>Describe covalent bonds and what happens to valence electrons in covalent bonds.</p> <p>Differentiate between ionic and covalent bonds.</p> <p>Write and name covalent compounds.</p> <p>Discuss and differentiate between polar and nonpolar covalent bonds.</p> <p>Describe how metallic bonds form between metal atoms.</p> <p>Describe properties of metallic bonds.</p> <p>Describe Hydrogen bonds.</p>	<p>GEN BR: Complete ions questions</p> <p>ADV BR: Complete ion questions</p> <p>Students will:</p> <p>GEN: Review Ionic bonding, writing formulas, & naming ionic compounds; complete Ionic Bonding Task cards; complete Ionic Bonding Quiz; introduce Covalent Bonding.</p> <p>ADV: Complete Checkpoint 3.1; watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; complete Naming Covalent Compounds practice; discuss polar & nonpolar covalent bonds; discuss metallic bonds & electron pooling; describe characteristics of metallic bonds; discuss Hydrogen bonds.</p>	<p>Ionic Bonding Task Cards</p> <p>Ionic Bonding Quiz</p> <p>Video - Ionic vs. Molecular - Tyler DeWitt</p> <p>Bonding Basics - Covalent</p> <p>Covalent Bonding Guided notes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
<p>F R I 1 2 - 1 1</p>	<p>Describe covalent bonds and what happens to valence electrons in covalent bonds.</p> <p>Differentiate between ionic and covalent bonds.</p> <p>Write and name covalent compounds.</p> <p>Describe how metallic bonds form between metal atoms.</p> <p>Describe properties of metallic bonds.</p> <p>Differentiate between ionic,</p>	<p>GEN BR: Complete Lewis Structure questions</p> <p>ADV BR: Complete Lewis Structure questions</p> <p>Students will:</p> <p>GEN: Watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; practice naming & writing</p>	<p>Video - Ionic vs. Molecular - Tyler DeWitt</p> <p>Bonding Basics - Covalent</p> <p>Covalent Bonding Guided notes</p> <p>Naming Covalent Compounds</p> <p>A+/E3 Unit 3 notes</p> <p>A+/E3 Polyatomic Ion Quiz #1</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on</p>

covalent, and metallic bonds. Review bonds and practice drawing bonds, naming compounds, and writing formulas.	covalent compounds; complete Naming Covalent Compounds practice; discuss metallic bonding & properties of metallic bonds. ADV: Complete Polyatomic Ion Quiz #1; complete Formula Practice; complete Writing & Naming Formulas; complete Bonding Task Cards; complete Ionic & Covalent sorting activity.	Formula Practice Writing & Naming Formulas Bonding Task Cards Ionic & Covalent sorting activity			characteristic properties
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CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 2 - 8	<p>Define valence electrons and describe how the columns on a periodic table relate to them.</p> <p>Utilize the periodic table to determine the number of valence electrons in an atom of an element.</p> <p>Determine if an atom is neutral or electrically charged.</p> <p>Describe how an ion is formed.</p> <p>Differentiate between cations and anions.</p> <p>Utilize Lewis structures to show ionic bonding.</p> <p>Write ionic formulas and name ionic compounds.</p> <p>Describe polyatomic ions and their charges.</p>	<p>GEN BR: Complete valence electrons questions</p> <p>ADV BR: Complete valence electrons questions</p> <p>Students will: GEN: Watch video What is an Ion? & complete Is it an Ion? worksheet; watch Ionic Bonding videos & complete Bonding Basics - Ionic; write ionic formulas & name ionic compounds using criss-cross method; complete Writing Ionic Formulas & Naming Compounds worksheet. ADV: Watch Ionic Bonding Part 2 & 3 finish Bonding Basics - Ionic; Writing Ionic Formulas & Naming</p>	<p>Video - What is an Ion? - Tyler DeWitt</p> <p>Is it an Ion? Worksheet</p> <p>Video - Introduction to Ionic Bonding - Tyler Dewitt</p> <p>Video - Ionic Bonding Part 2 - Tyler DeWitt</p> <p>Video - Ionic Bonding Part 3 - Tyler DeWitt</p> <p>Bonding Basics - Ionic</p> <p>Writing Ionic Formulas & Naming Compounds</p> <p>Video - Alkali</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	Participation; classwork	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		Compounds; utilize criss-cross method to write formulas; discuss properties of ionic compounds; watch video of alkali metals in water; discuss polyatomic ions & practice naming & writing of compounds with them; introduce Covalent Bonding.	Metals in Water Bonding Basics - Covalent			
THUR 12-10	Utilize the criss-cross method to write ionic formulas. Name ionic compounds based on their formula. Describe covalent bonds and what happens to valence electrons in covalent bonds. Differentiate between ionic and covalent bonds. Write and name covalent compounds. Discuss and differentiate between polar and nonpolar covalent bonds. Describe how metallic bonds form between metal atoms. Describe properties of metallic bonds. Describe Hydrogen bonds.	GEN BR: Complete ions questions ADV BR: Complete ion questions Students will: GEN: Review Ionic bonding, writing formulas, & naming ionic compounds; complete Ionic Bonding Task cards; complete Ionic Bonding Quiz; introduce Covalent Bonding. ADV: Complete Checkpoint 3.1; watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; complete Naming Covalent Compounds practice; discuss polar & nonpolar covalent bonds; discuss metallic bonds & electron pooling; describe characteristics of metallic bonds; discuss Hydrogen bonds.	Ionic Bonding Task Cards Ionic Bonding Quiz Video - Ionic vs. Molecular - Tyler DeWitt Bonding Basics - Covalent Covalent Bonding Guided notes	Virtual Assignment Due Friday Finish any unfinished classwork ADV: Review Polyatomic Ions names & formulas for quiz Friday	Participation; classwork	1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules 2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties

WEEK OF Dec. 14 - 18, 2020

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 2 - 1 4	<p>Describe covalent bonds and what happens to valence electrons in covalent bonds.</p> <p>Differentiate between ionic and covalent bonds.</p> <p>Write and name covalent compounds.</p> <p>Describe how metallic bonds form between metal atoms.</p> <p>Describe properties of metallic bonds.</p> <p>Differentiate between ionic, covalent, and metallic bonds.</p> <p>Review bonds and practice drawing bonds, naming compounds, and writing formulas.</p>	<p>GEN BR: Complete Lewis Structure questions</p> <p>ADV BR: Complete Lewis Structure questions</p> <p>Students will: GEN: Watch video - Ionic vs. Molecular; complete Bonding Basics - Covalent; complete Covalent Bonding Guided notes; practice naming & writing covalent compounds; complete Naming Covalent Compounds practice; discuss metallic bonding & properties of metallic bonds.</p> <p>ADV: Complete Polyatomic Ion Quiz #1; complete Formula Practice; complete Writing & Naming Formulas; complete Bonding Task Cards; complete Ionic & Covalent sorting activity.</p>	<p>Video - Ionic vs. Molecular - Tyler DeWitt</p> <p>Bonding Basics - Covalent</p> <p>Covalent Bonding Guided notes</p> <p>Naming Covalent Compounds</p> <p>A+/E3 Unit 3 notes</p> <p>A+/E3 Polyatomic Ion Quiz #1</p> <p>Formula Practice</p> <p>Writing & Naming Formulas</p> <p>Bonding Task Cards</p> <p>Ionic & Covalent sorting activity</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

<p>W E D 1 2 - 1 6</p>	<p>Review ionic, covalent, and metallic bonding.</p> <p>Count atoms correctly in a chemical formula.</p> <p>Determine if a chemical equation is balanced or not.</p> <p>Balance a chemical equation using coefficients.</p>	<p>GEN BR: Complete ionic bond questions</p> <p>ADV BR: Complete ionic bond questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 11 Vocabulary Quiz; complete Element Symbols Test; review metallic bonding; complete Chemical Bonding Worksheet; complete & correct Bonding Study Guide.</p> <p>ADV: Review bonding; complete Bonding Mini-Test; discuss how to count atoms in formulas with subscripts & coefficients; identify parts of a chemical equation; determine if an equation is balanced or unbalanced; discuss & practice how to balance an equation using coefficients.</p>	<p>Ch. 11 Vocabulary Quiz</p> <p>Element Symbols Test</p> <p>Chemical Bonding Worksheet</p> <p>Bonding Study Guide</p> <p>Bonding Mini-Test - Quizziz</p> <p>How to Count Atoms</p> <p>Balancing Equations Challenge</p> <p>Balancing Act</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	<p>Participation; quiz; test; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
<p>F R I 1 2 - 1 8</p>	<p>Demonstrate knowledge of chemical bonding.</p> <p>State and discuss the Law of Conservation of Mass.</p> <p>Explain why chemical equations must be balanced.</p> <p>Demonstrate the Law of Conservation of Mass.</p> <p>Identify types of chemical reactions.</p>	<p>GEN BR: Complete ionic bonding name questions</p> <p>ADV BR: Complete ionic bonding name questions</p> <p>Students will:</p> <p>GEN: Review bonding; complete Bonding Unit Test; complete Bonding NB Test; make a new title page & table of contents for Chemical Reaction Unit; complete Ch.</p>	<p>Bonding Unit Test</p> <p>Bonding NB Test</p> <p>Polyatomic Ion Quiz #2</p> <p>Element Symbols Test</p> <p>Law of Conservation of Mass Lab</p> <p>Flintstones Types of Reactions Video</p> <p>Types of Reactions sheet</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		<p>12 Vocabulary sheet.</p> <p>ADV: Complete Polyatomic Ion Quiz #2; complete Element Symbols Test; discuss Law of Conservation of Mass & why chemical equations must be balanced; complete Law of Conservation of Mass lab; discuss & identify type of chemical reactions; watch Flintstones type of reactions video & complete practice sheet.</p>				
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GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 2 - 1 5	<p>Review ionic, covalent, and metallic bonding.</p> <p>Count atoms correctly in a chemical formula.</p> <p>Determine if a chemical equation is balanced or not.</p> <p>Balance a chemical equation using coefficients.</p>	<p>GEN BR: Complete ionic bond questions</p> <p>ADV BR: Complete ionic bond questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 11 Vocabulary Quiz; complete Element Symbols Test; review metallic bonding; complete Chemical Bonding Worksheet; complete & correct Bonding Study Guide.</p> <p>ADV: Review bonding; complete Bonding Mini-Test; discuss how to count atoms in formulas with subscripts & coefficients; identify parts of a chemical equation; determine if an equation is balanced or</p>	<p>Ch. 11 Vocabulary Quiz</p> <p>Element Symbols Test</p> <p>Chemical Bonding Worksheet</p> <p>Bonding Study Guide</p> <p>Bonding Mini-Test - Quizziz</p> <p>How to Count Atoms</p> <p>Balancing Equations Challenge</p> <p>Balancing Act</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas for quiz Friday</p>	<p>Participation; quiz; test; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		unbalanced; discuss & practice how to balance an equation using coefficients.				
THUR 12-11-7	<p>Demonstrate knowledge of chemical bonding.</p> <p>State and discuss the Law of Conservation of Mass.</p> <p>Explain why chemical equations must be balanced.</p> <p>Demonstrate the Law of Conservation of Mass.</p> <p>Identify types of chemical reactions.</p>	<p>GEN BR: Complete ionic bonding name questions</p> <p>ADV BR: Complete ionic bonding name questions</p> <p>Students will:</p> <p>GEN: Review bonding; complete Bonding Unit Test; complete Bonding NB Test; make a new title page & table of contents for Chemical Reaction Unit; complete Ch. 12 Vocabulary sheet.</p> <p>ADV: Complete Polyatomic Ion Quiz #2; complete Element Symbols Test; discuss Law of Conservation of Mass & why chemical equations must be balanced; complete Law of Conservation of Mass lab; discuss & identify type of chemical reactions; watch Flintstones type of reactions video & complete practice sheet.</p>	<p>Bonding Unit Test</p> <p>Bonding NB Test</p> <p>Polyatomic Ion Quiz #2</p> <p>Element Symbols Test</p> <p>Law of Conservation of Mass Lab</p> <p>Flintstones Types of Reactions Video</p> <p>Types of Reactions sheet</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	Participation; classwork	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

WEEK OF Jan. 4 - 8, 2021

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1-4	TEACHER INSERVICE DAY					
WED 1-6	<p>Review ionic, covalent, and metallic bonding.</p> <p>Count atoms correctly in a chemical formula.</p> <p>Determine if a chemical equation is balanced or not.</p> <p>Balance a chemical equation using coefficients.</p> <p>State and discuss the Law of Conservation of Mass.</p> <p>Explain why chemical equations must be balanced.</p> <p>Demonstrate the Law of Conservation of Mass.</p> <p>Differentiate between endothermic and exothermic reactions.</p> <p>Define activation energy.</p> <p>Identify and describe factors that affect the rates of reactions.</p>	<p>GEN BR: Complete counting atoms questions</p> <p>ADV BR: Complete balance or unbalanced questions</p> <p>Students will:</p> <p>GEN: Watch video -Counting Atoms; complete How to Count Atoms sheet; discuss chemical equations, their parts, and how to tell if they are balanced; identify parts of chemical equations; watch video - Introduction to Balancing Equations; balance chemical equations; discuss the Law of Conservation of Mass & observe demonstration.</p> <p>ADV: Review parts of an equation, balancing equations, & types of reactions; complete Checkpoint 3.2; discuss Law of Conservation of</p>	<p>Video - Counting Atoms</p> <p>How to Count Atoms</p> <p>Video - Introduction to Balancing Equations - Tyler DeWitt</p> <p>Balancing Equations Challenge</p> <p>Balancing Act</p> <p>Law of Conservation of Mass Demo</p> <p>Sunset in a Bag Lab</p> <p>A+/E3 Unit 3 Notes</p>	<p style="color: blue; font-weight: bold;">Virtual Assignment Due Friday</p> <p style="color: red; font-weight: bold;">Finish any unfinished classwork</p> <p style="color: red; font-weight: bold;">ADV: Review Polyatomic Ions names & formulas Friday</p>	<p>Participation; lab; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

		Mass & observe demonstration; discuss activation energy & energy in reactions (endothermic & exothermic); complete Sunset in a Bag lab; discuss factors that affect the rates of reactions.				
FR I 1-8	<p>Determine if chemical equations are balanced or unbalanced.</p> <p>Balance equations using coefficients.</p> <p>Identify types of chemical reactions.</p> <p>Identify & describe factors that affect rates of reactions.</p>	<p>GEN BR: Complete balanced or unbalanced questions</p> <p>ADV BR: Complete balancing equations questions</p> <p>Students will:</p> <p>GEN: Complete Element Symbols test; identify types of reactions by watching video - Flintstones Types of Reactions & reading through powerpoint; complete Types of Reactions worksheet; complete Key Concept Builder - Types of Reactions; complete Types of Reactions sort.</p> <p>ADV: Complete Polyatomic Ion Quiz #2; complete Checkpoint 3.3; complete Rates of Reactions Lab; complete Chemical Reactions task cards; review Bonding; review for test Tuesday..</p>	<p>Element Symbols Test</p> <p>Flintstones Types of Reactions video</p> <p>Types of Reactions PowerPoint & worksheet</p> <p>Key Concept Builder</p> <p>Polyatomic Ion Quiz #2</p> <p>Types of Reactions card sort</p> <p>Rates of Reactions Lab</p> <p>Chemical Reactions Task Cards</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Study for Unit 3 Test Tuesday</p>	Participation; classwork	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS	

T U S 1 - 5	<p>Review ionic, covalent, and metallic bonding.</p> <p>Count atoms correctly in a chemical formula.</p> <p>Determine if a chemical equation is balanced or not.</p> <p>Balance a chemical equation using coefficients.</p> <p>State and discuss the Law of Conservation of Mass.</p> <p>Explain why chemical equations must be balanced.</p> <p>Demonstrate the Law of Conservation of Mass.</p> <p>Differentiate between endothermic and exothermic reactions.</p> <p>Define activation energy.</p> <p>Identify and describe factors that affect the rates of reactions.</p>	<p>GEN BR: Complete counting atoms questions</p> <p>ADV BR: Complete balance or unbalanced questions</p> <p>Students will:</p> <p>GEN: Watch video -Counting Atoms; complete How to Count Atoms sheet; discuss chemical equations, their parts, and how to tell if they are balanced; identify parts of chemical equations; watch video - Introduction to Balancing Equations; balance chemical equations; discuss the Law of Conservation of Mass & observe demonstration.</p> <p>ADV: Review parts of an equation, balancing equations, & types of reactions; complete Checkpoint 3.2; discuss Law of Conservation of Mass & observe demonstration; discuss activation energy & energy in reactions (endothermic & exothermic); complete Sunset in a Bag lab; discuss factors that affect the rates of reactions.</p>	<p>Video - Counting Atoms</p> <p>How to Count Atoms</p> <p>Video - Introduction to Balancing Equations - Tyler DeWitt</p> <p>Balancing Equations Challenge</p> <p>Balancing Act</p> <p>Law of Conservation of Mass Demo</p> <p>Sunset in a Bag Lab</p> <p>A+/E3 Unit 3 Notes</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p> <p>ADV: Review Polyatomic Ions names & formulas Thursday.</p>	<p>Participation; lab; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
T H U R 1 -	<p>Determine if chemical equations are balanced or unbalanced.</p> <p>Balance equations using coefficients.</p> <p>Identify types of chemical</p>	<p>GEN BR: Complete balanced or unbalanced questions</p> <p>ADV BR: Complete balancing equations questions</p>	<p>Element Symbols Test</p> <p>Flintstones Types of Reactions video</p> <p>Types of Reactions</p>	<p>Virtual Assignment Due Friday</p> <p>Finish any unfinished classwork</p>	<p>Participation; classwork</p>	<p>1. Analyze patterns within the periodic table to construct models that illustrate the structure composition and characteristics of atoms and simple and</p>

7	<p>reactions.</p> <p>Identify & describe factors that affect rates of reactions.</p>	<p>Students will:</p> <p>GEN: Complete Element Symbols test; identify types of reactions by watching video - Flintstones Types of Reactions & reading through powerpoint; complete Types of Reactions worksheet; complete Key Concept Builder - Types of Reactions; complete Types of Reactions sort.</p> <p>ADV: Complete Polyatomic Ion Quiz #2; complete Checkpoint 3.3; complete Rates of Reactions Lab; complete Chemical Reactions task cards; review Bonding; review for test Tuesday..</p>	<p>PowerPoint & worksheet</p> <p>Key Concept Builder</p> <p>Polyatomic Ion Quiz #2</p> <p>Types of Reactions card sort</p> <p>Rates of Reactions Lab</p> <p>Chemical Reactions Task Cards</p>	<p>ADV: Study for Unit 3 Test Monday</p>		<p>complex molecules</p> <p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p>
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WEEK OF Jan. 11 - 15, 2021

GRAY

	COURSE: 8th Grade ADV & GEN Science	TEACHER: Stacie Pruitt	PERIODS: 1, 3, 5			
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1 - 1 1	<p>Differentiate between endothermic and exothermic reactions.</p> <p>Define activation energy.</p> <p>Identify and describe factors that affect the rates of reactions.</p> <p>Demonstrate knowledge of chemical reactions and equations.</p>	<p>GEN BR: Complete types of reactions questions</p> <p>ADV BR: Complete types of reactions questions</p> <p>Students will:</p> <p>GEN: Discuss activation energy; define endothermic & exothermic reactions; differentiate between endothermic & exothermic reactions; discuss rates of reactions & what factors can change rates; complete Key Concept Builder: Energy Changes & Chemical Reactions; complete Content Practice A: Energy Changes & Chemical Reactions</p> <p>ADV: Complete Checkpoint 3.4 & 3.5; complete Unit 3 Test; complete Unit 3 NB test; watch TedEd video on mixtures; complete Element, Compounds, & Mixtures sort; complete Classification of Matter sheet.</p>	<p>Bozeman Science video - Activation Energy</p> <p>Bozeman Science video - Endothermic & Exothermic Reactions</p> <p>Ted ED video - How to Speed Up Chemical Reactions</p> <p>Key Concept Builder</p> <p>Content Practice A</p> <p>Unit 3 Test</p> <p>Unit 3 NB Test</p> <p>Ted ED video - Science of Macaroni Salad</p> <p>E,C,M Card Sort</p> <p>Classification of Matter Sheet.</p>	<p>Finish any unfinished classwork</p>	<p>Key Concept Builder; Content Practice A; Unit Test & NB Test; Checkpoints</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>

W E D 1 - 1 3	<p>Review Chemical Reactions and Equations.</p> <p>Differentiate between pure substances and mixtures.</p> <p>Differentiate between homogeneous and heterogeneous mixtures.</p> <p>Identify the parts of a solution..</p> <p>Define saturated, unsaturated, and supersaturated.</p> <p>Differentiate between saturated, unsaturated, and supersaturated solutions.</p> <p>Determine what factors affect solubility.</p>	<p>GEN BR: Complete endothermic & exothermic questions</p> <p>ADV BR: Complete endothermic & exothermic questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 12 Vocabulary Quiz; watch Bill Nye video - Chemical Reactions & complete worksheet; complete Chemical Reaction Task Cards; complete Study Guide.</p> <p>ADV: Discuss difference between pure substances & mixtures; observe Nuts & Bolts Demo; predict if a substance is pure or a mixture; describe mixtures as homogeneous or heterogeneous; identify parts of a solution; discuss concentration & saturation of solutions; discuss factors that affect solubility; complete Odd One Out - Elements, Compounds, & Mixtures.</p>	<p>Ch. 12 Vocabulary Quiz</p> <p>Bill Nye Video - Chemical Reactions</p> <p>Video Worksheet</p> <p>Chemical Reaction Task Cards</p> <p>Study Guide</p> <p>Nuts & Bolts Demo</p> <p>Odd One Out - E, C, M</p>	<p>Finish any unfinished classwork</p>	<p>Vocab Quiz; video worksheet; task cards; Odd One Out</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>
F R I 1 - 1 5	<p>Demonstrate knowledge of Chemical Reactions & Equations.</p> <p>Calculate the solubility of a substance.</p> <p>Describe how mixtures may be separated.</p>	<p>GEN BR: Complete factors that affect reaction rate questions</p> <p>ADV BR: Complete element, compound, & mixture questions</p> <p>Students will:</p> <p>GEN: Complete</p>	<p>Chemical Reactions Test</p> <p>Chemical Reactions NB Test</p> <p>Ted ED video - Science of Macaroni Salad</p> <p>E,C,M Card Sort</p>	<p>Finish any unfinished classwork</p>	<p>Test; NB Test; Checkpoint; Card sorts; article; Solubility Practice Problems</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on</p>

		<p>Chemical Reactions Unit Test; complete Chemical Reaction NB Test; make a new title page & table of contents for Mixtures Unit; define Ch. 13 vocabulary; watch TedEd video on mixtures; complete Element, Compounds, & Mixtures sort.</p> <p>ADV: Complete Checkpoint 4.1; complete Solubility Practice problems; complete; complete The pH Scale article; complete Acid Base Card Sort.</p>	<p>Checkpoint 4.1 Solubility Practice Problems The pH Scale Article Acid Base Card Sort</p>			evidence from investigations to differentiate among compounds, mixtures, and solutions.
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CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 - 1 2	<p>Differentiate between endothermic and exothermic reactions.</p> <p>Define activation energy.</p> <p>Identify and describe factors that affect the rates of reactions.</p> <p>Demonstrate knowledge of chemical reactions and equations.</p>	<p>GEN BR: Complete types of reactions questions</p> <p>ADV BR: Complete types of reactions questions</p> <p>Students will:</p> <p>GEN: Discuss activation energy; define endothermic & exothermic reactions; differentiate between endothermic & exothermic reactions; discuss rates of reactions & what factors can change rates; complete Key Concept Builder: Energy Changes & Chemical Reactions; complete Content</p>	<p>Bozeman Science video - Activation Energy</p> <p>Bozeman Science video - Endothermic & Exothermic Reactions</p> <p>Ted ED video - How to Speed Up Chemical Reactions</p> <p>Key Concept Builder</p> <p>Content Practice A</p> <p>Unit 3 Test</p> <p>Unit 3 NB Test</p> <p>Ted ED video - Science of Macaroni Salad</p>	<p>Finish any unfinished classwork</p>	<p>Key Concept Builder; Content Practice A; Unit Test & NB Test; Checkpoints</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>

		<p>Practice A: Energy Changes & Chemical Reactions</p> <p>ADV: Complete Checkpoint 3.4 & 3.5; complete Unit 3 Test; complete Unit 3 NB test; watch TedEd video on mixtures; complete Element, Compounds, & Mixtures sort; complete Classification of Matter sheet.</p>	<p>E,C,M Card Sort</p> <p>Classification of Matter Sheet.</p>			
<p>T H U R 1 - 1 4</p>	<p>Review Chemical Reactions and Equations.</p> <p>Differentiate between pure substances and mixtures.</p> <p>Differentiate between homogeneous and heterogeneous mixtures.</p> <p>Identify the parts of a solution..</p> <p>Define saturated, unsaturated, and supersaturated.</p> <p>Differentiate between saturated, unsaturated, and supersaturated solutions.</p> <p>Determine what factors affect solubility.</p>	<p>GEN BR: Complete endothermic & exothermic questions</p> <p>ADV BR: Complete endothermic & exothermic questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 12 Vocabulary Quiz; watch Bill Nye video - Chemical Reactions & complete worksheet; complete Chemical Reaction Task Cards; complete Study Guide.</p> <p>ADV: Discuss difference between pure substances & mixtures; observe Nuts & Bolts Demo; predict if a substance is pure or a mixture; describe mixtures as homogeneous or heterogeneous; identify parts of a solution; discuss concentration & saturation of solutions; discuss factors that affect solubility; complete Odd One Out - Elements,</p>	<p>Ch. 12 Vocabulary Quiz</p> <p>Bill Nye Video - Chemical Reactions</p> <p>Video Worksheet</p> <p>Chemical Reaction Task Cards</p> <p>Study Guide</p> <p>Nuts & Bolts Demo</p> <p>Odd One Out - E, C, M</p>	<p>Finish any unfinished classwork</p>	<p>Vocab Quiz; video worksheet; task cards; Odd One Out</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>

Compounds, & Mixtures.

WEEK OF Jan. 18 - 22, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1-18	MLK Day No School					
WED 1-20	<p>Differentiate between pure substances and mixtures.</p> <p>Differentiate between homogeneous and heterogeneous mixtures.</p> <p>Identify the parts of a solution..</p> <p>Define saturated, unsaturated, and supersaturated.</p> <p>Differentiate between saturated, unsaturated, and supersaturated solutions.</p> <p>Determine what factors affect solubility.</p> <p>Discuss neutralization of acids & bases.</p> <p>Differentiate between strength & concentration of acids.</p> <p>Discuss how dilution affects acids & bases.</p>	<p>Students will:</p> <p>GEN: Watch Crash Course video -Solutions; watch Ted ED video - Science of Macaroni Salad; watch teacher made video on Classification of Matter; complete Elements, Compounds, & Mixtures card sort; complete Content Vocabulary - Properties of Solutions; complete Content Practice A - Substances & Mixtures.</p> <p>ADV: Discuss neutralization of acids & bases; discuss how the strength of an acid or base differs from concentration;</p>	<p>Crash Course Video - Solutions</p> <p>Ted ED Video - Science of Macaroni Salad</p> <p>Teacher made video</p> <p>Elements, Compounds, & Mixtures Card sort</p> <p>Content Vocabulary</p> <p>Content Practice A</p> <p>Crash Course Video - Acid-Base Reactions in Solution</p> <p>Acid Base Balance, Animation video</p> <p>pH HyperDoc</p>	<p>Finish any unfinished classwork</p>	<p>Videos; card sort; Content Vocabulary; Content Practice A; pH HyperDoc</p>	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>

		watch Crash Course Video - Acid-Base Reactions in Solution; watch Acid Base Balance, Animation video; complete pH HyperDoc activity; begin working on Study Guide for Semester Exam.	Semester Exam Study Guide			
FR I 1 - 2 2	Review all units in preparation for Semester Exam	Students will: GEN: Complete Semester Exam Study Guide ADV: Finish Semester Exam Study Guide	Semester Exam Study Guide	Finish Study Guide & Study for Exams	Participation	

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 1 - 1 9	Demonstrate knowledge of Chemical Reactions & Equations. Calculate the solubility of a substance. Describe how mixtures may be separated.	GEN BR: Complete factors that affect reaction rate questions ADV BR: Complete element, compound, & mixture questions Students will: GEN: Complete Chemical Reactions Unit Test; complete Chemical Reaction NB Test; make a new title page & table of contents for Mixtures Unit; define Ch. 13 vocabulary; watch TedEd video on mixtures; complete Element, Compounds, & Mixtures sort. ADV: Complete Checkpoint 4.1; complete Solubility Practice problems;	Chemical Reactions Test Chemical Reactions NB Test Ted ED video - Science of Macaroni Salad E,C,M Card Sort Checkpoint 4.1 Solubility Practice Problems The pH Scale Article Acid Base Card Sort	Finish any unfinished classwork	Test; NB Test; Checkpoint; Card sorts; article; Solubility Practice Problems	2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties 3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.

		complete; complete The pH Scale article; complete Acid Base Card Sort.				
T H U R 1 - 2 1	<p>Differentiate between pure substances and mixtures.</p> <p>Differentiate between homogeneous and heterogeneous mixtures.</p> <p>Identify the parts of a solution..</p> <p>Define saturated, unsaturated, and supersaturated.</p> <p>Differentiate between saturated, unsaturated, and supersaturated solutions.</p> <p>Determine what factors affect solubility.</p> <p>Discuss neutralization of acids & bases.</p> <p>Differentiate between strength & concentration of acids.</p> <p>Discuss how dilution affects acids & bases.</p>	<p>Students will:</p> <p>GEN: Watch Crash Course video -Solutions; watch Ted ED video - Science of Macaroni Salad; watch teacher made video on Classification of Matter; complete Elements, Compounds, & Mixtures card sort; complete Content Vocabulary - Properties of Solutions; complete Content Practice A - Substances & Mixtures.</p> <p>ADV: Discuss neutralization of acids & bases; discuss how the strength of an acid or base differs from concentration; watch Crash Course Video - Acid-Base Reactions in Solution; watch Acid Base Balance, Animation video; complete pH HyperDoc activity; begin working on Study Guide for Semester Exam.</p>	<p>Crash Course Video - Solutions</p> <p>Ted ED Video - Science of Macaroni Salad</p> <p>Teacher made video</p> <p>Elements, Compounds, & Mixtures Card sort</p> <p>Content Vocabulary</p> <p>Content Practice A</p> <p>Crash Course Video - Acid-Base Reactions in Solution</p> <p>Acid Base Balance, Animation video</p> <p>pH HyperDoc</p> <p>Semester Exam Study Guide</p>	Finish any unfinished classwork	Videos; card sort; Content Vocabulary; Content Practice A; pH HyperDoc	<p>2. Plan and carry out investigations to generate evidence supporting the claim that one pure substance can be distinguished from another based on characteristic properties</p> <p>3. Construct explanations based on evidence from investigations to differentiate among compounds, mixtures, and solutions.</p>

WEEK OF Jan. 25 - 29, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 1-2-5	Review for Semester Exam	Students will: GEN & ADV: Review Study Guides & play review game. Students will report to all 6 periods.	Semester Exam Study Guide Review Game	STUDY FOR EXAMS	Participation	ACOS Standards 1, 2, 3, 4, 5
WED 1-2-7	Demonstrate knowledge of chemistry units.	Students will: Complete 3rd period & 4th period Semester Exams; number pages in new NB. Students will report to 5th & 6th period after exams for review.	Semester Exam	STUDY FOR EXAMS	Semester Exam	ACOS Standards 1, 2, 3, 4, 5
FRI 1-2-9	Finish any make-exams.	Students will: Complete any make-up exams if needed.	Semester Exam			ACOS Standards 1, 2, 3, 4, 5

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
TUES 1	Demonstrate knowledge of chemistry units.	Students will: Complete 1st period & 2nd period Semester Exams; number pages in new NB.	Semester Exam	STUDY FOR EXAMS	Semester Exam	ACOS Standards 1, 2, 3, 4, 5

- 2 6		Students will report to 3rd & 4th period after exams for review.				
T H U R 1 - 2 8	Demonstrate knowledge of chemistry units.	<p>Students will:</p> <p>Complete 5th period & 6th period Semester Exams; number pages in new NB.</p> <p>Students will report to 1st & 2nd period after exams and will continue to set up NB.</p>	Semester Exam	STUDY FOR EXAMS	Semester Exam	ACOS Standards 1, 2, 3, 4, 5

WEEK OF Feb. 1 - 5, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
M O N 2 - 1	<p>Review graphing skills: Independent variables Dependent variables Plotting points Labeling</p> <p>Define forces and differentiate between contact and noncontact forces. Describe and determine if forces are balanced or unbalanced. Discuss the result of balanced and unbalanced forces. Calculate net force.</p>	<p>GEN BR: Complete graphing review questions.</p> <p>ADV BR: Complete graphing review questions.</p> <p>Students will: GEN: Make a new title page & TOC for forces unit; complete Line Graph Guided Practice after reviewing key steps in graphing; watch Veritasium video - What is Force?; complete Forces Guided notes using Forces PPT; complete Forces Balanced & Unbalanced Sorting Activity; complete Net Forces Practice - Schoology assignment; define Ch. 2 Vocabulary Lessons 1 & 2 (remove 1st Law & Inertia).</p> <p>ADV: Make a new title page & TOC for Unit 5 - Forces & Motion; watch Veritasium video - What is Force?; complete Forces Guided notes using Forces PPT; discuss Unit 5 notes pp.8-10 - balanced vs unbalanced, contact vs noncontact, net</p>	<p>Line Graph Guided Practice Veritasium video - What is Force? Forces Guided Notes & PPT Net Force Practice - Schoology Assignment E3 - Unit 5 Notes Veritasium Video - What Forces are Acting on You? E3 - Checkpoint 5.4</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology Assignment; Checkpoint</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

		force, free body diagrams; complete Note Interactions p.10; watch Veritasium video - What Forces are Acting on You?; complete Checkpoint 5.4; complete Net Force Problems - Schoology; complete Net Force Practice Problems.				
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<p>W E D - 2 - 3</p>	<p>Calculate Net Force. Differentiate between mass and weight. Define gravity and how it affects mass and weight. Define friction and discuss how it affects gravity's pull on an object. Define motion and describe how to determine if an object is in motion. Differentiate between distance and displacement. Define speed and how it is calculated. Differentiate between instantaneous speed, average speed, and constant speed. Calculate speed.</p>	<p>GEN BR: Complete unbalanced or balanced forces questions. ADV BR: Complete net force questions. Students will: GEN: Complete Net Force Practice Problems worksheet; complete Weight, Mass, & Gravity worksheet using PPT; watch Bill Nye Gravity Video & complete worksheet while watching; complete Schoology assignment - Key Concept Builder: Gravity & Friction. ADV: Complete Motion & Speed guided notes using PPT; discuss Unit 5 notes pp.1-2 - distance, displacement, reference point; complete Note Interaction p.2; observe Vector Walk on Physics Classroom & determine answers as a class; discuss question "What is Speed?"; discuss Unit 5 notes p.3 - distance/time, constant, average, calculations, units; complete Note Interaction p.3; complete practice speed calculations; complete Checkpoint 5.1.</p>	<p>Net Force Practice Problems Weight, Mass, & Gravity worksheet Bill Nye video - Gravity Schoology Assignment Motion & Speed Guided Notes & PPT E3 - Unit 5 Notes Physics Classroom - Vector Walk E3 - Checkpoint 5.1</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology Assignment; Checkpoint</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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<p>F R I 2 - 5</p>	<p>Define motion and describe how to determine if an object is in motion. Differentiate between distance and displacement. Define speed and how it is calculated. Differentiate between instantaneous speed, average speed, and constant speed. Calculate speed. Describe an object's motion based on a position-time graph. Differentiate between speed and velocity. Measure the distance and time an object travels and graph data to determine average speed.</p>	<p>GEN BR: Complete net force questions. ADV BR: Complete speed calculations. Students will: GEN: Complete Motion & Speed Guided Notes using PPT; discuss - distance, reference point, instantaneous speed, average speed, constant speed, how speed is calculated, units for measuring speed; complete Speed Lab; complete Schoology Assignment - Speed Problems. ADV: Discuss Unit 5 notes pp.4-5 - position-time graphs, different lines on graphs & their meaning, comparing slopes; differentiate between speed & velocity; use Speed & Velocity Graph notes page to discuss differing slopes; complete Note Interaction p.5; complete LTF Speed Lab - review line of best fit & slope calculation; complete Checkpoint 5.2.</p>	<p>Motion & Speed Guided Notes & PPT Speed Lab Schoology Assignment - Speed Problems E3 - Unit 5 Notes Speed & Velocity Graph Notes LTF Speed Lab E3 - Checkpoint 5.2</p>	<p>Finish any unfinished classwork</p>	<p>Lab; Schoology Assignment; Checkpoint</p>	<p>ACOS: 8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force. 9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object. 12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
<p>T U E</p>	<p>Review graphing skills: Independent variables Dependent variables Plotting points</p>	<p>GEN BR: Complete graphing review questions.</p>	<p>Line Graph Guided Practice Veritasium video</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology Assignment</p>	<p>ACOS: 8. Use Newton's first law to demonstrate & explain</p>

S 2 - 2	<p>Labeling</p> <p>Define forces and differentiate between contact and noncontact forces.</p> <p>Describe and determine if forces are balanced or unbalanced.</p> <p>Discuss the result of balanced and unbalanced forces.</p> <p>Calculate net force.</p>	<p>ADV BR: Complete graphing review questions.</p> <p>Students will:</p> <p>GEN: Make a new title page & TOC for forces unit; complete Line Graph Guided Practice after reviewing key steps in graphing; watch Veritasium video - What is Force?; complete Forces Guided notes using Forces PPT; complete Forces Balanced & Unbalanced Sorting Activity; complete Net Forces Practice - Schoology assignment; define Ch. 2 Vocabulary Lessons 1 & 2 (remove 1st Law & Inertia).</p> <p>ADV: Make a new title page & TOC for Unit 5 - Forces & Motion; watch Veritasium video - What is Force?; complete Forces Guided notes using Forces PPT; discuss Unit 5 notes pp.8-10 - balanced vs unbalanced, contact vs noncontact, net force, free body diagrams; complete Note Interactions p.10; watch Veritasium video - What Forces are Acting on You?; complete Checkpoint 5.4.</p>	<p>- What is Force?</p> <p>Forces Guided Notes & PPT</p> <p>Net Force Practice - Schoology Assignment</p> <p>E3 - Unit 5 Notes</p> <p>Veritasium Video - What Forces are Acting on You?</p> <p>E3 - Checkpoint 5.4</p>			<p>that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
T H U R	<p>Calculate Net Force.</p> <p>Differentiate between mass and weight.</p> <p>Define gravity and how it affects mass and weight.</p> <p>Define friction and discuss</p>	<p>GEN BR: Complete unbalanced or balanced forces questions.</p> <p>ADV BR: Complete</p>	<p>Net Force Practice Problems</p> <p>Weight, Mass, & Gravity</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology Assignment; Checkpoint</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon</p>

2 - 4	<p>how it affects gravity's pull on an object.</p> <p>Define motion and describe how to determine if an object is in motion.</p> <p>Differentiate between distance and displacement.</p> <p>Define speed and how it is calculated.</p> <p>Differentiate between instantaneous speed, average speed, and constant speed.</p> <p>Calculate speed.</p>	<p>net force questions.</p> <p>Students will:</p> <p>GEN: Complete Net Force Practice Problems worksheet; complete Weight, Mass, & Gravity worksheet using PPT; watch Bill Nye Gravity Video & complete worksheet while watching; complete Schoology assignment - Key Concept Builder: Gravity & Friction.</p> <p>ADV: Complete Motion & Speed guided notes using PPT; discuss Unit 5 notes pp.1-2 - distance, displacement, reference point; complete Note Interaction p.2; observe Vector Walk on Physics Classroom & determine answers as a class; discuss question "What is Speed?"; discuss Unit 5 notes p.3 - distance/time, constant, average, calculations, units; complete Note Interaction p.3; complete practice speed calculations; complete Checkpoint 5.1.</p>	<p>worksheet</p> <p>Bill Nye video - Gravity</p> <p>Schoology Assignment</p> <p>Motion & Speed Guided Notes & PPT</p> <p>E3 - Unit 5 Notes</p> <p>Physics Classroom - Vector Walk</p> <p>E3 - Checkpoint 5.1</p>			<p>by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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WEEK OF Feb. 8 - 12, 2021

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 2-8	<p>Define motion and describe how to determine if an object is in motion.</p> <p>Differentiate between distance and displacement.</p> <p>Define speed and how it is calculated.</p> <p>Differentiate between instantaneous speed, average speed, and constant speed.</p> <p>Calculate speed.</p> <p>Describe an object's motion based on a position-time graph.</p> <p>Differentiate between speed and velocity.</p> <p>Measure the distance and time an object travels and graph data to determine average speed.</p>	<p>GEN BR: Complete net force questions.</p> <p>ADV BR: Complete speed calculations.</p> <p>Students will: GEN: Complete Motion & Speed Guided Notes using PPT; discuss - distance, reference point, instantaneous speed, average speed, constant speed, how speed is calculated, units for measuring speed; complete Speed Lab; complete Schoology Assignment - Speed Problems.</p> <p>ADV: Discuss Unit 5 notes pp.4-5 - position-time graphs, different lines on graphs & their meaning, comparing slopes; differentiate between speed & velocity; use Speed & Velocity Graph notes page to discuss differing slopes; complete Note Interaction p.5; complete LTF Speed Lab - review line of best fit & slope calculation; complet Checkpoint 5.2.</p>	<p>Motion & Speed Guided Notes & PPT</p> <p>Speed Lab</p> <p>Schoology Assignment - Speed Problems</p> <p>E3 - Unit 5 Notes</p> <p>Speed & Velocity Graph Notes</p> <p>LTF Speed Lab</p> <p>E3 - Checkpoint 5.2</p>	<p>Finish any unfinished classwork</p>	<p>Lab; Schoology Assignment; Checkpoint</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

<p>W E D 2 - 1 O</p>	<p>Describe the speed of an object based on graphical information.</p> <p>Identify the causes of friction.</p> <p>Describe when friction is helpful and when it is harmful.</p> <p>Describe how to increase or decrease friction.</p> <p>Describe the acceleration of an object based on graphical information.</p> <p>Calculate speed of an object for a specific time interval shown on a graph.</p> <p>Define and describe acceleration.</p> <p>Calculate acceleration.</p>	<p>GEN BR: Complete speed calculations.</p> <p>ADV BR: Complete distance-time graph questions.</p> <p>Students will:</p> <p>GEN: Discuss Speed & Velocity Graph notes - highlight different slopes to explain what is happening to the object's speed; complete Distance-Time Graph Practice; discuss Friction - what causes it, how it can be helpful or harmful, & how to increase it or decrease it; complete Friction Lab; complete Distance-Time Graph Schoology assignment.</p> <p>ADV: Complete Checkpoint 5.3; complete LTF Position Time Graphs activity; complete Acceleration guided notes & discuss Unit 5 notes pp.6-7; discuss Acceleration Graph Notes page - highlight different slopes to show what is happening to an object's acceleration; watch Veritasium video - Can You Perceive Acceleration?; complete Acceleration Word Problems.</p>	<p>Speed & Velocity Graph notes page</p> <p>Distance-Time Graph practice</p> <p>Friction Lab</p> <p>Distance-Time Graph Schoology assignment</p> <p>E3 Checkpoint 5.3</p> <p>LTF Position Time Graphs activity</p> <p>Acceleration Guided notes</p> <p>E3 Unit 5 Notes</p> <p>Acceleration Word Problems</p>	<p>Finish any unfinished classwork</p> <p>GEN - Study for Vocab Quiz</p>	<p>Lab; Schoology assignment; Checkpoint; LTF activity</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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<p>F R I 2 - 1 2</p>	<p>Review Forces & Motion.</p> <p>Describe the difference between mass & weight.</p> <p>Describe gravity and its effect on mass and weight.</p> <p>Calculate weight using SI units.</p> <p>Differentiate between free fall and terminal velocity.</p> <p>Calculate the speed of a falling object.</p>	<p>GEN BR: Complete friction questions.</p> <p>ADV BR: Complete acceleration calculations.</p> <p>Students will:</p> <p>GEN: Complete Ch.2 Vocabulary Quiz; complete Forces & Motion Task Cards #1-9; complete Net Forces Maze activity; complete Study Guide for test.</p> <p>ADV: Ask question - What is the difference between mass & weight?; watch Veritasium video - Difference Between Mass & Weight; discuss Unit 5 notes pp.11-12 - gravity, weight, noncontact force, weight vs. mass, acceleration due to gravity, free fall, terminal velocity; complete Weight, Mass, & Gravity guided notes; watch Veritasium video - Misconceptions about Falling Objects; watch Usain Bolt vs. Gravity; watch video - NASA Feather vs. Hammer; complete Gravitational Gauntlet; complete Unit 5 Note Interaction p.12; complete Checkpoint 5.5.</p>	<p>Ch.2 Vocabulary Quiz</p> <p>Forces & Motion Task Cards</p> <p>Net Force Maze</p> <p>Motion & Speed Study Guide</p> <p>Weight, Mass, & Gravity Guided Notes</p> <p>Veritasium video - Difference Between Mass & Weight & Misconceptions About Falling Objects</p> <p>NASA video - Feather vs. Hammer</p> <p>Minute Physics video - Usain Bolt vs. Gravity</p> <p>Gravitational Gauntlet</p> <p>Unit 5 Note Interaction p.12</p> <p>Checkpoint 5.5</p>	<p>Finish any unfinished classwork</p> <p>GEN - Study for Unit Test next week</p>	<p>Quiz; Checkpoint; participation</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 2 - 9	<p>Describe the speed of an object based on graphical information.</p> <p>Identify the causes of friction.</p> <p>Describe when friction is helpful and when it is harmful.</p> <p>Describe how to increase or decrease friction.</p> <p>Describe the acceleration of an object based on graphical information.</p> <p>Calculate speed of an object for a specific time interval shown on a graph.</p> <p>Define and describe acceleration.</p> <p>Calculate acceleration.</p>	<p>GEN BR: Complete speed calculations.</p> <p>ADV BR: Complete distance-time graph questions.</p> <p>Students will:</p> <p>GEN: Discuss Speed & Velocity Graph notes - highlight different slopes to explain what is happening to the object's speed; complete Distance-Time Graph Practice; discuss Friction - what causes it, how it can be helpful or harmful, & how to increase it or decrease it; complete Friction Lab; complete Distance-Time Graph Schoology assignment.</p> <p>ADV: Complete Checkpoint 5.3; complete LTF Position Time Graphs activity; complete Acceleration guided notes & discuss Unit 5 notes pp.6-7; discuss Acceleration Graph Notes page - highlight different slopes to show what is happening to an object's acceleration; watch Veritasium video - Can You Perceive Acceleration?; complete Acceleration Word Problems.</p>	<p>Speed & Velocity Graph notes page</p> <p>Distance-Time Graph practice</p> <p>Friction Lab</p> <p>Distance-Time Graph Schoology assignment</p> <p>E3 Checkpoint 5.3</p> <p>LTF Position Time Graphs activity</p> <p>Acceleration Guided notes</p> <p>E3 Unit 5 Notes</p> <p>Acceleration Word Problems</p>	<p>Finish any unfinished classwork</p> <p>GEN - Study for Vocab Quiz</p>	<p>Lab; Schoology assignment; Checkpoint; LTF activity</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

<p>T H U R 2 - 1 1</p>	<p>Review Forces & Motion. Describe the difference between mass & weight. Describe gravity and its effect on mass and weight. Calculate weight using SI units. Differentiate between free fall and terminal velocity. Calculate the speed of a falling object.</p>	<p>GEN BR: Complete friction questions. ADV BR: Complete acceleration calculations. Students will: GEN: Complete Ch.2 Vocabulary Quiz; complete Forces & Motion Task Cards #1-9; complete Net Forces Maze activity; complete Study Guide for test. ADV: Ask question - What is the difference between mass & weight?; watch Veritasium video - Difference Between Mass & Weight; discuss Unit 5 notes pp.11-12 - gravity, weight, noncontact force, weight vs. mass, acceleration due to gravity, free fall, terminal velocity; complete Weight, Mass, & Gravity guided notes; watch Veritasium video - Misconceptions about Falling Objects; watch Usain Bolt vs. Gravity; watch video - NASA Feather vs. Hammer; complete Gravitational Gauntlet; complete Unit 5 Note Interaction p.12; complete Checkpoint 5.5.</p>	<p>Ch.2 Vocabulary Quiz Forces & Motion Task Cards Net Force Maze Motion & Speed Study Guide Weight, Mass, & Gravity Guided Notes Veritasium video - Difference Between Mass & Weight & Misconceptions About Falling Objects NASA video - Feather vs. Hammer Minute Physics video - Usain Bolt vs. Gravity Gravitational Gauntlet Unit 5 Note Interaction p.12 Checkpoint 5.5</p>	<p>Finish any unfinished classwork GEN - Study for Unit Test next week</p>	<p>Quiz; Checkpoint; participation</p>	<p>ACOS: 8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force. 9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object. 12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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WEEK OF Feb. 15 - 19, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 2 - 1 5	<p>Demonstrate knowledge of forces, motion, and speed.</p> <p>Calculate speed of objects in free fall.</p> <p>Define and describe friction and what causes friction.</p> <p>Differentiate between helpful and harmful friction.</p> <p>Describe how to increase and decrease friction.</p>	<p>GEN BR: Complete distance time graph questions.</p> <p>ADV BR: Complete gravity problem.</p> <p>Students will: GEN: Complete Speed & Motion Unit test; complete Speed & Motion NB test; make a new title page & table of contents for Newton's Laws of Motion unit; complete vocabulary for Ch. 2 Lesson 2, 3, & 4.</p> <p>ADV: Complete Free Fall problems; read Nature Puts on the Brakes article & discuss; discuss Unit 5 notes p.13-14 - factors that affect friction, how to increase or decrease friction, when friction is helpful & harmful; complete Note Interaction p.14; watch video - Mythbusters Phonebook; complete Friction Lab.</p>	<p>Speed & Motion Test</p> <p>Speed & Motion NB Test</p> <p>Vocabulary sheets</p> <p>Free Fall problems</p> <p>Nature Put on the Brakes article</p> <p>E3 Unit 5 Notes</p> <p>Video - Mythbusters Phonebook</p> <p>Friction Lab</p>	<p>Finish any unfinished classwork</p>	<p>Test, NB Test, Lab</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

<p>W E D 2 - 1 7</p>	<p>Describe the acceleration of an object based on graphical information.</p> <p>Calculate speed of an object for a specific time interval shown on a graph.</p> <p>Define and describe acceleration.</p> <p>Calculate acceleration.</p> <p>Differentiate between speed, velocity, and acceleration.</p> <p>Demonstrate knowledge of forces, motion, speed, and acceleration.</p>	<p>GEN BR: Complete distance time graph calculation.</p> <p>ADV BR: Complete friction problem.</p> <p>Students will: GEN: Complete Acceleration guided notes using Acceleration PowerPoint; discuss Acceleration Graph notes & how it differs from Speed Graph; watch video - NBC Learn Science of Football; complete acceleration problems on guided notes; take notes on Speed, Velocity, & Acceleration; complete Speed, Velocity, & Acceleration Sort on Schoology.</p> <p>ADV: Complete Checkpoint 5.6; complete Unit 5 Test Part I; begin Bungee Barbie Lab.</p>	<p>Acceleration Guided notes Acceleration PowerPoint Acceleration Graph Notes Video - NBC Learn Science of Football Speed, Velocity, Acceleration sort - Schoology E3 Checkpoint 5.6 Unit 5 Test Part I Bungee Barbie Lab</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology assignment; Checkpoint; Test</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
<p>F R I 2 - 1 9</p>	<p>Calculate acceleration.</p> <p>Differentiate between speed, velocity, and acceleration.</p> <p>Describe and state Newton's 1st Law of Motion.</p> <p>Determine slope of a line of best fit.</p> <p>Determine y-intercept and line equation of a line.</p>	<p>GEN BR: Complete acceleration calculations.</p> <p>ADV BR: Complete speed, velocity, & acceleration units questions.</p> <p>Students will: GEN: Complete Acceleration & Formula Challenge worksheet; complete Newton's 1st Law guided notes using PowerPoint; demonstrate Newton's 1st Law;</p>	<p>Acceleration & Formula Challenge worksheet Newton's 1st Law guided notes Newton's 1st Law guided PPT Video NBC Learn Science of Hockey - Newton's 1st Law Newton's 1st Law Schoology. Bungee Barbie Lab</p>	<p>Finish any unfinished classwork</p>	<p>Newton's 1st Law assignment; Lab</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

		watch video NBC Learn Science of Hockey - Newton's 1st Law; complete Newton's 1st Law assignment on Schoology. ADV: Finish Bungee Barbie Lab.				
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CARDINAL

COURSE: 8th Grade ADV & GEN Science	TEACHER: Stacie Pruitt	PERIODS: 2, 4, 6
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	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 2 - 1 6	Demonstrate knowledge of forces, motion, and speed. Calculate speed of objects in free fall. Define and describe friction and what causes friction. Differentiate between helpful and harmful friction. Describe how to increase and decrease friction.	GEN BR: Complete distance time graph questions. ADV BR: Complete gravity problem. Students will: GEN: Complete Speed & Motion Unit test; complete Speed & Motion NB test; make a new title page & table of contents for Newton's Laws of Motion unit; complete vocabulary for Ch. 2 Lesson 2, 3, & 4. ADV: Complete Free Fall problems; read Nature Puts on the Brakes article & discuss; discuss Unit 5 notes p.13-14 - factors that affect friction, how to increase or decrease friction, when friction is helpful & harmful; complete Note Interaction p.14; watch video - Mythbusters Phonebook; complete Friction Lab.	Speed & Motion Test Speed & Motion NB Test Vocabulary sheets Free Fall problems Nature Put on the Brakes article E3 Unit 5 Notes Video - Mythbusters Phonebook Friction Lab	Finish any unfinished classwork	Test, NB Test, Lab	ACOS: 8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force. 9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object. 12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.

<p>T H U R 2 - 1 8</p>	<p>Describe the acceleration of an object based on graphical information.</p> <p>Calculate speed of an object for a specific time interval shown on a graph.</p> <p>Define and describe acceleration.</p> <p>Calculate acceleration.</p> <p>Differentiate between speed, velocity, and acceleration.</p> <p>Demonstrate knowledge of forces, motion, speed, and acceleration.</p>	<p>GEN BR: Complete distance time graph calculation.</p> <p>ADV BR: Complete friction problem.</p> <p>Students will:</p> <p>GEN: Complete Acceleration guided notes using Acceleration PowerPoint; discuss Acceleration Graph notes & how it differs from Speed Graph; watch video - NBC Learn Science of Football; complete acceleration problems on guided notes; take notes on Speed, Velocity, & Acceleration; complete Speed, Velocity, & Acceleration Sort on Schoology.</p> <p>ADV: Complete Checkpoint 5.6; complete Unit 5 Test Part I; begin Bungee Barbie Lab.</p>	<p>Acceleration Guided notes Acceleration PowerPoint Acceleration Graph Notes Video - NBC Learn Science of Football Speed, Velocity, Acceleration sort - Schoology E3 Checkpoint 5.6 Unit 5 Test Part I Bungee Barbie Lab</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology assignment; Checkpoint; Test</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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WEEK OF Feb. 22 - 26, 2021

CARDINAL

COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 2 - 2 2	<p>Calculate acceleration.</p> <p>Differentiate between speed, velocity, and acceleration.</p> <p>Describe and state Newton's 1st Law of Motion.</p> <p>Determine slope of a line of best fit.</p> <p>Determine y-intercept and line equation of a line.</p>	<p>GEN BR: Complete acceleration calculations.</p> <p>ADV BR: Complete speed, velocity, & acceleration units questions.</p> <p>Students will: GEN: Complete Acceleration & Formula Challenge worksheet; complete Newton's 1st Law guided notes using PowerPoint; demonstrate Newton's 1st Law; watch video NBC Learn Science of Hockey - Newton's 1st Law; complete Newton's 1st Law assignment on Schoology. ADV: Finish Bungee Barbie Lab.</p>	<p>Acceleration & Formula Challenge worksheet</p> <p>Newton's 1st Law guided notes</p> <p>Newton's 1st Law guided PPT</p> <p>Video NBC Learn Science of Hockey - Newton's 1st Law</p> <p>Newton's 1st Law Schoology.</p> <p>Bungee Barbie Lab</p>	<p>Finish any unfinished classwork</p>	<p>Newton's 1st Law assignment; Lab</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

W E D 2 - 2 4	<p>Describe and state Newton's 1st Law of Motion.</p> <p>Describe and state Newton's 2nd Law of Motion.</p> <p>Calculate the force needed to accelerate a mass using Newton's 2nd Law equation.</p>	<p>GEN BR: Complete Newton's 1st Law questions</p> <p>ADV BR: Complete Newton's 1st Law questions</p> <p>Students will:</p> <p>GEN: Complete Newton's 2nd Law Guided notes using PPT; complete 2nd Law Practice Problems; complete Kesler stations; watch Science of Hockey or Golf - 2nd Law videos; complete Newton's 3rd Law Guided notes using PPT; complete Kesler stations; watch Science of Hockey or Golf - 3rd Law videos; complete Newton's 2nd & 3rd Law Schoology assessment.</p> <p>ADV: Finish Bungee Barbie Lab; complete Newton's 1st Law guided notes using PPT; complete Kesler stations; complete Schoology 1st Law assessment.</p>	<p>Newton's 2nd Law guided notes & PPT</p> <p>Newton's 3rd Law guided notes & PPT</p> <p>Newton's 2nd & 3rd Law Schoology assessment</p> <p>Bungee Barbie Lab</p> <p>Newton's 1st Law guided notes & PPT</p> <p>Newton's 1st Law Schoology assessment</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology assignment; lab</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
F R I 2 - 2 6	<p>Describe and state Newton's 3rd Law of Motion.</p> <p>Describe the Law of Conservation of Momentum.</p> <p>Demonstrate the conservation of momentum through simulation.</p> <p>Calculate the momentum of an object.</p>	<p>GEN BR: Complete Newton's 2nd Law questions</p> <p>ADV BR: Complete Newton's 2nd Law questions</p> <p>Students will:</p> <p>GEN: Complete Momentum Practice Problems; complete PhET Collision Lab; complete Newton's Laws of Motion card sort; complete Newton's 3 Laws Schoology</p>	<p>Momentum Practice Problems</p> <p>PhET Collision Lab</p> <p>Newton's Laws of Motion card sort</p> <p>Newton's 2nd & 3rd Law Schoology assessment</p> <p>Newton's 3 Laws Schoology assessment</p>	<p>Finish any unfinished classwork</p>	<p>Participation; PhET lab; Schoology assessments</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on</p>

		<p>assessment.</p> <p>ADV: Complete Newton's 2nd Law Guided notes using PPT; complete 2nd Law Practice Problems; complete Kesler stations; complete Newton's 3rd Law Guided notes using PPT; complete Kesler stations; complete PhET Collision Lab; complete Newton's 2nd & 3rd Law Schoology assessment; complete Newton's Laws of Motion card sort; complete Schoology 3 Laws assessment.</p>				each other even when the objects are not in contact.
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COURSE: 8th Grade ADV & GEN Science		TEACHER: Stacie Pruitt		PERIODS: 2, 4, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 2 - 2 3	<p>Describe and state Newton's 1st Law of Motion.</p> <p>Describe and state Newton's 2nd Law of Motion.</p> <p>Calculate the force needed to accelerate a mass using Newton's 2nd Law equation.</p>	<p>GEN BR: Complete Newton's 1st Law questions</p> <p>ADV BR: Complete Newton's 1st Law questions</p> <p>Students will:</p> <p>GEN: Complete Newton's 2nd Law Guided notes using PPT; complete 2nd Law Practice Problems; complete Kesler stations; watch Science of Hockey or Golf - 2nd Law videos; complete Newton's 3rd Law Guided notes using PPT; complete Kesler stations; watch Science of Hockey or Golf - 3rd Law videos; complete</p>	<p>Newton's 2nd Law guided notes & PPT</p> <p>Newton's 3rd Law guided notes & PPT</p> <p>Newton's 2nd & 3rd Law Schoology assessment</p> <p>Bungee Barbie Lab</p> <p>Newton's 1st Law guided notes & PPT</p> <p>Newton's 1st Law Schoology assessment</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology assignment; lab</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

		<p>Newton's 2nd & 3rd Law Schoology assessment.</p> <p>ADV: Finish Bungee Barbie Lab; complete Newton's 1st Law guided notes using PPT; complete Kesler stations; complete Schoology 1st Law assessment.</p>				
<p>T H U R 2 - 2 5</p>	<p>Describe and state Newton's 3rd Law of Motion.</p> <p>Describe the Law of Conservation of Momentum.</p> <p>Demonstrate the conservation of momentum through simulation.</p> <p>Calculate the momentum of an object.</p>	<p>GEN BR: Complete Newton's 2nd Law questions</p> <p>ADV BR: Complete Newton's 2nd Law</p> <p>Students will:</p> <p>GEN: Complete Momentum Practice Problems; complete PhET Collision Lab; complete Newton's Laws of Motion card sort; complete Newton's 3 Laws Schoology assessment.</p> <p>ADV: Complete Newton's 2nd Law Guided notes using PPT; complete 2nd Law Practice Problems; complete Kesler stations; complete Newton's 3rd Law Guided notes using PPT; complete Kesler stations; complete PhET Collision Lab; complete Newton's 2nd & 3rd Law Schoology assessment; complete Newton's Laws of Motion card sort; complete Schoology 3 Laws assessment.</p>	<p>Momentum Practice Problems</p> <p>PhET Collision Lab</p> <p>Newton's Laws of Motion card sort</p> <p>Newton's 2nd & 3rd Law Schoology assessment</p> <p>Newton's 3 Laws Schoology assessment</p>	<p>Finish any unfinished classwork</p>	<p>Participation; PhET lab; Schoology assessments</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

WEEK OF Mar. 1 - 5, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Bette Cobb		PERIODS: 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON OCT NOV 3 - 1	Review Newton's 3 Laws of Motion.	<p>GEN BR: Complete Newton's 3rd Law questions</p> <p>ADV BR: Complete Newton's 2nd & 3rd Law questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 2 Vocabulary Quiz; complete Graphing Card Sort; complete Graphing Speed Sheet; complete Newton's Laws Escape Room activity; complete & review Study Guide for Motion & Acceleration Unit Test; organize NB for NB test; complete any missing Schoology assignments.</p> <p>ADV: Complete Checkpoint 5.8; complete Newton's Laws Card Sort; complete Around the Room Circuit; complete Newton's Laws Escape Room; play Kahoot to review for Unit 5 Part II test; organize NB for Unit 5 NB Test; complete any missing Schoology assignments.</p>	<p>Ch. 2 Vocabulary Quiz - Schoology</p> <p>Graphing Card Sort</p> <p>Graphing Speed</p> <p>Newton's Laws Escape Room</p> <p>Motion & Acceleration Study Guide</p> <p>E3 Checkpoint 5.8</p> <p>Newton's Laws Card Sort</p> <p>Around the Room Circuit</p> <p>Kahoot</p>	<p>Finish any unfinished classwork</p> <p>Study for Unit test</p>	Quiz; participation; Schoology assignments	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

<p>W E D 3 - 3</p>	<p>Demonstrate knowledge of Newton's Laws of Motion, acceleration, and momentum.</p>	<p>GEN BR: Complete Newton's 3 Laws questions</p> <p>ADV BR: Complete Newton's 3 Laws questions</p> <p>Students will:</p> <p>GEN: Complete Motion & Acceleration Unit Test; complete Motion & Acceleration NB Test; make a new title page & table of contents for Energy Unit; complete Vocabulary for Ch. 3 Lesson 2 & Ch. 5 Lessons 1 & 2.</p> <p>ADV: Complete Unit 5 Part II Test; complete Unit 5 NB Test; make a new title page & table of contents for Unit 6 - Energy.</p>	<p>Motion & Acceleration Unit Test</p> <p>Motion & Acceleration NB Test</p> <p>Unit 5 Part II Test</p> <p>Unit 5 NB Test</p>	<p>Finish any unfinished classwork</p> <p>ADV - Print Unit 6 Notes</p>	<p>Test & NB Test</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
<p>F R I 3 - 5</p>	<p>Define and describe work.</p> <p>Differentiate between work and not work examples.</p> <p>Calculate work done by an object.</p> <p>Define and describe power.</p> <p>Calculate power exerted by an object.</p> <p>Differentiate between work and power.</p> <p>Describe how work and power can be changed.</p>	<p>GEN BR: Complete momentum questions</p> <p>ADV BR: Complete momentum questions</p> <p>Students will:</p> <p>GEN: Complete Work & Power Guided Notes; watch video - Professor Dave Explains: Work & Power; practice calculating Work & Power; complete Work & Power Lab.</p> <p>ADV: Discuss Unit 6 notes p.1; complete Work & Power Guided Notes; watch video - Professor Dave Explains: Work &</p>	<p>Work & Power Guided Notes & PowerPoint</p> <p>Work & Power Calculations</p> <p>Video - Professor Dave Explains: Work & Power</p> <p>Work & Power Lab</p> <p>Crash Course Video - Work & Power</p>	<p>Finish any unfinished classwork</p>	<p>Participation; lab</p>	<p>ACOS:</p> <p>13. Create & analyze graphical displays of data to illustrate the relationships of kinetic energy to the mass and speed of an object.</p> <p>14. Use models to construct an explanation of how a system of objects may contain varying types and amounts of potential energy.</p> <p>15. Analyze & interpret data from experiments to determine how various factors affect energy transfer as measured by temperature.</p> <p>16. Apply the law of conservation energy to develop arguments supporting the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.</p>

		Power; watch Crash Course video - Work & Power; practice calculating Work & Power; complete Work & Power Lab.				
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COURSE: 8th Grade ADV & GEN Science	TEACHER: Stacie Pruitt	PERIODS: 1, 3, 5
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	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
T U E S 3 - 2	Review Newton's 3 Laws of Motion.	<p>GEN BR: Complete Newton's 3rd Law questions</p> <p>ADV BR: Complete Newton's 2nd & 3rd Law questions</p> <p>Students will:</p> <p>GEN: Complete Ch. 2 Vocabulary Quiz; complete Graphing Card Sort; complete Graphing Speed Sheet; complete Newton's Laws Escape Room activity; complete & review Study Guide for Motion & Acceleration Unit Test; organize NB for NB test; complete any missing Schoology assignments.</p> <p>ADV: Complete Checkpoint 5.8; complete Newton's Laws Card Sort; complete Around the Room Circuit; complete Newton's Laws Escape Room; play Kahoot to review for Unit 5 Part II test; organize NB for Unit 5 NB Test; complete any missing Schoology assignments.</p>	<p>Ch. 2 Vocabulary Quiz - Schoology</p> <p>Graphing Card Sort</p> <p>Graphing Speed</p> <p>Newton's Laws Escape Room</p> <p>Motion & Acceleration Study Guide</p> <p>E3 Checkpoint 5.8</p> <p>Newton's Laws Card Sort</p> <p>Around the Room Circuit</p> <p>Kahoot</p>	<p>Finish any unfinished classwork</p> <p>Study for Unit test</p>	Quiz; participation; Schoology assignments	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>

<p>T H U 3 - 4</p>	<p>Demonstrate knowledge of Newton's Laws of Motion, acceleration, and momentum.</p>	<p>GEN BR: Complete Newton's 3 Laws questions ADV BR: Complete Newton's 3 Laws questions Students will: GEN: Complete Motion & Acceleration Unit Test; complete Motion & Acceleration NB Test; make a new title page & table of contents for Energy Unit; complete Vocabulary for Ch. 3 Lesson 2 & Ch. 5 Lessons 1 & 2. ADV: Complete Unit 5 Part II Test; complete Unit 5 NB Test; make a new title page & table of contents for Unit 6 - Energy.</p>	<p>Motion & Acceleration Unit Test Motion & Acceleration NB Test Unit 5 Part II Test Unit 5 NB Test</p>	<p>Finish any unfinished classwork ADV - Print Unit 6 Notes</p>	<p>Test & NB Test</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</p> <p>9. Use Newton's second law to demonstrate & explain how changes in an object's motion depend on the sum of the external forces on the object & the mass of the object.</p> <p>12. Construct an argument from evidence explaining that fields exist between objects exerting forces on each other even when the objects are not in contact.</p>
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