

WEEK OF Feb. 1 - 5, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science		TEACHER: Cobb		PERIODS: 1, 3, 5		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON TUE WED THU FRI	<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: 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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F R I 2 - 5	<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:</p> <p>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; complete 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>
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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	<p>Review graphing skills: Independent variables Dependent variables Plotting points</p>	<p>GEN BR: Complete graphing review questions.</p>	<p>Line Graph Guided Practice</p> <p>Veritasium video</p>	<p>Finish any unfinished classwork</p>	<p>Participation; Schoology Assignment</p>	<p>ACOS:</p> <p>8. Use Newton's first law to demonstrate & explain</p>