WEEK OF Feb. 15 - 19, 2021

GRAY

COURSE: 8th Grade ADV & GEN Science TEACHER:Bette Cobb PERIODS: 5

	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON 2-15	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.

WED 2-17	Describe the acceleration of an object based on graphical information. Calculate speed of an object for a specific time interval shown on a graph. Define and describe acceleration. Calculate acceleration. Differentiate between speed, velocity, and acceleration. Demonstrate knowledge of forces, motion, speed, and acceleration.	**GEN BR:** Complete distance time graph calculation. **ADV BR:** Complete friction problem. **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. **ADV:** Complete Checkpoint 5.6; complete Unit 5 Test Part I; begin Bungee Barbie Lab.	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	**Finish any unfinished classwork**	Participation; Schoology assignment; Checkpoint; Test	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.
FRI 2-19	Calculate acceleration. Differentiate between speed, velocity, and acceleration. Describe and state Newton's 1st Law of Motion. Determine slope of a line of best fit. Determine y-intercept and line equation of a line.	**GEN BR:** Complete acceleration calculations. **ADV BR:** Complete speed, velocity, & acceleration units questions. **Students will:** **GEN:** Complete Acceleration & Formula Challenge worksheet; complete Newton's 1st Law guided notes using PowerPoint; demonstrate Newton's 1st Law;	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	**Finish any unfinished classwork**	Newton's 1st Law assignment; 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.