## WEEK OF January 8th-12th , 2024

С	COURSE: 8th Grade Science TEACHER: Turne		Turner	PERIODS: 1, 2,3,4,6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
	motion has occurred.	GEN BR: Weight & gravity questions ADV BR: Displacement/Dist ance and Speed questions Students will: GEN: Complete & discuss Motion & Speed Guided notes; complete Speed Practice Problems; draw a 3-pane comic strip showing motion of an object. ADV: Complete Checkpoint 5.1; complete Position vs. Time Graphs notes on pp.4-5 of Unit 5 notes; discuss & annotate Speed & Velocity Graph notes page; discuss the difference between speed & velocity; complete note interaction p.5.	Motion & Speed Guided notes Speed Practice Problems 3-pane comic strip E3/A+ Checkpoint 5.1 E3/A+ Unit 5 Notes Speed & Velocity Graph	Finish any unfinished classwork	Participation; Checkpoint 5.1	<ul> <li>ACOS:</li> <li>8. Use Newton's first law to demonstrate &amp; explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</li> <li>9. Use Newton's second law to demonstrate &amp; explain how changes in an object's motion depend on the sum of the external forces on the object &amp; the mass of the object.</li> <li>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.</li> </ul>

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T U E S	Measure the distance and time an object travels and calculate its speed. Interpret and analyze information about the speed of an object on a distance-time graph.	GEN BR: Speed questions ADV BR: Speed questions Students will: GEN: Complete Speed Lab. ADV: Complete Checkpoint 5.2; complete LTF Speed Lab using constant velocity cars; review slope & line of best fit.	Speed Lab E3/A+ Checkpoint 5.2 LTF Speed Lab	Finish any unfinished classwork	Participation; lab; Checkpoint	<ul> <li>ACOS:</li> <li>8. Use Newton's first law to demonstrate &amp; explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</li> <li>9. Use Newton's second law to demonstrate &amp; explain how changes in an object's motion depend on the sum of the external forces on the object &amp; the mass of the object.</li> <li>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.</li> </ul>
WED	determine an object's speed.	GEN BR: Speed questions ADV BR: Velocity questions Students will: GEN: Discuss & annotate Speed & Velocity Graph notes page; complete Distance-Time Graphs Activity; complete Math Skills-Solve for Average Speed; complete Content Practice B-Speed & Velocity. ADV: Complete LTF Position-Time Graphs activity; discuss Unit 5 notes pp.6-7: acceleration; discuss & annotate Acceleration Graph notes pg; watch	Speed & Velocity Graph Distance-Time Graphs Activity Math Skills-Solve for Average Speed Content Practice B-Speed & Velocity LTF Position-Time Graphs E3/A+ Unit 5 Notes Acceleration Graph NBC Learn video - Science of Football	Finish any unfinished classwork	Participation	<ul> <li>ACOS:</li> <li>8. Use Newton's first law to demonstrate &amp; explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</li> <li>9. Use Newton's second law to demonstrate &amp; explain how changes in an object's motion depend on the sum of the external forces on the object &amp; the mass of the object.</li> <li>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.</li> </ul>

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		NBC Learn video - Science of Football.				
T H U R S	Define and describe friction. Describe how friction affects motion. Differentiate between speed and acceleration graphs. Utilize speed and acceleration graphs to describe the speed and motion of an object. Differentiate between mass and weight. Describe how gravity affects mass. Identify misconceptions about gravity and falling objects.	GEN BR: Speed & velocity questions ADV BR: Acceleration questions Students will: GEN: Describe friction - define, how it affects motion, & when it is helpful/harmful; complete Friction Lab. ADV: Complete Checkpoint 5.3; complete Math Skills-Acceleration ; complete Acceleration Word Problems; complete LTF Graph Matching Activity; watch Veritasium video - Difference between Mass & Weight.	Friction notes Friction Lab E3/A+ Checkpoint 5.3 Math Skills- Acceleration Word Problems LTF Graph Matching Activity Veritasium video - Difference between Mass & Weight	Finish any unfinished classwork	Participation; lab; Checkpoint	<ul> <li>ACOS:</li> <li>8. Use Newton's first law to demonstrate &amp; explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</li> <li>9. Use Newton's second law to demonstrate &amp; explain how changes in an object's motion depend on the sum of the external forces on the object &amp; the mass of the object.</li> <li>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.</li> </ul>
FRI	Demonstrate knowledge of Force & Motion vocabulary. Review Forces & Motion. Differentiate between mass and weight. Describe how gravity affects mass. Identify misconceptions about gravity and falling objects. Calculate weight in Newtons.	GEN BR: Friction questions ADV BR: Acceleration questions Students will: GEN: Complete Vocabulary quiz; complete Forces & Motion Task Cards #1-19; complete Forces & Motion Study Guide. ADV: Discuss Unit 5 notes pp.11-12 - gravity, noncontact force, weight vs mass; complete Gravitational	Vocabulary quiz Forces & Motion Task Cards Forces & Motion Study Guide E3/A+ Unit 5 Notes Gravitational Gauntlet NASA-Feather & Hammer video Veritasium video- Misconceptions of Falling	Finish any unfinished classwork	Participation; quiz	<ul> <li>ACOS:</li> <li>8. Use Newton's first law to demonstrate &amp; explain that an object is either at rest or moves at a constant velocity unless acted upon by an external force.</li> <li>9. Use Newton's second law to demonstrate &amp; explain how changes in an object's motion depend on the sum of the external forces on the object &amp; the mass of the object.</li> <li>12. Construct an argument from evidence explaining that fields exist between objects</li> </ul>

Gauntlet; demonstrate acceleration due to gravity; watch NASA-Feather & Hammer video; watch Veritasium video - Misconceptions of Falling Objects.	Objects			exerting forces on each other even when the objects are not in contact.
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