

## WEEK OF January 6th-11th, 2025

COURSE: 8th Grade ADV/Gen Science		TEACHER: Turner		PERIODS: 1, 3, 4, 5, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
MON	<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>Pre-Test Title page, New TOC "Force and Motion," Notes, What is Force?, Veritasium Video</p>				
TUES	<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>	-Complete work from yesterday				
WED	<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.</p>	<p><b>ADV &amp; GEN BR:</b> Number pages in NB</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Make a new title page &amp; table of contents for Force &amp; Motion; define Ch. 2 Lesson 1 &amp; 2; review graphing</p>	<p>Line Graph Guided Practice E3/A+ Unit 5 Notes Veritasium video - What is Force? Forces article</p>	Finish any unfinished classwork	Participation	<p>ACOS:</p> <p>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.</p> <p>9. Use Newton's second law to demonstrate &amp; explain how changes in</p>

	<p>Discuss the result of balanced and unbalanced forces. Calculate net force.</p>	<p>skills; complete Line Graph Guided Practice. <b>ADV:</b> Make a new title page &amp; table of contents for Unit 5; tape in Unit 5 notes; watch Veritasium video - What is Force?; read Forces article &amp; answer questions.</p>				<p>an object's motion depend on the sum of the external forces on the object &amp; 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><b>T H U R S</b></p>	<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><b>GEN BR:</b> Forces questions <b>ADV BR:</b> Forces questions <b>Students will:</b> <b>GEN:</b> Watch Veritasium video - What is Force?; complete Forces Guided notes using PPT; complete Net Force Practice Problems; complete Balanced &amp; Unbalanced Forces Sort. <b>ADV:</b> Discuss Unit 5 Notes pp.8-10 - balanced, unbalanced, net, contact, noncontact, free body diagrams; complete Balanced &amp; Unbalanced Forces sort; complete Net Force Practice Problems.</p>	<p>Veritasium video - What is Force? Forces Guided Notes &amp; PPT Net Force Practice Problems Balanced &amp; Unbalanced Forces sort E3/A+ Unit 5 Notes</p>	<p>Finish any unfinished classwork</p>	<p>Participation</p>	<p>ACOS:</p> <p>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.</p> <p>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.</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><b>F R I</b></p>	<p>Review graphing skills: Independent variables Dependent variables Plotting points Labeling</p> <p>Define forces and differentiate between contact</p>	<p><b>GEN BR:</b> Net Forces, Balanced, Unbalanced questions <b>ADV BR:</b> Net Forces, Balanced, Unbalanced</p>	<p>Bill Nye video - Gravity Gravity video sheet Weight, Mass, &amp; Gravity Guided Notes &amp;</p>	<p>Finish any unfinished classwork</p>	<p>Participation</p>	<p>ACOS:</p> <p>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</p>

<p>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>Differentiate between mass and weight.</p> <p>Describe how gravity affects mass.</p> <p>Calculate weight in Newtons.</p>	<p>questions</p> <p><b>Students will:</b></p> <p><b>GEN:</b> Watch Bill Nye - Gravity &amp; complete video sheet; complete Weight, Mass, &amp; Gravity Guided Notes &amp; practice; complete Gravitational Gauntlet.</p> <p><b>ADV:</b> Complete Checkpoint 5.4; read Motion &amp; Speed Article &amp; answer questions; discuss Unit 5 Notes pp.1-2 - reference point, distance, displacement; complete Note Interactions p.2; discuss speed &amp; what students think it is; complete Unit 5 Notes p.3.</p>	<p>practice</p> <p>Gravitational Gauntlet</p> <p>E3/A+ Checkpoint 5.4</p> <p>E3/A+ Unit 5 Notes</p> <p>Motion &amp; Speed Article</p>			<p>external force.</p> <p>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.</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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