

WEEK OF January 20-24th, 2025

COURSE: 8th Grade ADV Science		TEACHER: Turner		PERIODS: 1, 3, 4, 5, 6		
	OBJECTIVES	ACTIVITIES	MATERIALS	HOMEWORK	ASSESSMENT	STANDARDS
M O N	MLK Day - No School					
T U E S	Review Forces & Motion. Differentiate between free fall and terminal velocity. Describe how terminal velocity can change. Define friction. Weather Day-Plans will shift	GEN BR: Friction questions ADV BR: Gravity & weight questions Students will: GEN: Complete Vocabulary quiz; complete Forces & Motion Task Cards #1-19; complete Forces & Motion Study Guide. ADV: Complete Checkpoint 5.5; discuss Unit 5 notes - free fall, terminal velocity; watch video - Felix Baumgartner Red Bull; complete Note Interaction on p.12; complete Free Fall problems; read Nature Puts on the Brakes/Rock Climbing article & complete questions.	Vocabulary quiz Forces & Motion Task Cards #1-19 Forces & Motion Study Guide E3/A+ Checkpoint 5.5 video - Felix Baumgartner Red Bull E3/A+ Unit 5 Notes Nature Puts on the Brakes/Rock Climbing article & questions	Finish any unfinished classwork	Participation; quiz; Checkpoint	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.
W E D	Review for Forces & Motion Test Differentiate between different types of friction. Differentiate between helpful and harmful friction.	GEN BR: Review questions ADV BR: Terminal velocity & free fall questions Students will:	Study Guide E3/A+ Unit 5 Notes Crash Course video - Friction Friction PhET	Finish any unfinished classwork	Participation	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

	<p>Describe how friction can be increased and decreased.</p> <p>Weather Day-Plans will shift</p>	<p>GEN: Correct Study Guide; review for Forces & Motion Test.</p> <p>ADV: Discuss Unit 5 Notes pp.13-14 - friction, increasing & decreasing, helpful vs harmful; watch Crash Course video - Friction; demonstrate Friction PhET simulation; watch Mythbusters Phonebook video.</p>	<p>simulation Mythbusters Phonebook video</p>			<p>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 S</p>	<p>Demonstrate knowledge of Forces & Motion</p> <p>Differentiate between different types of friction.</p> <p>Differentiate between helpful and harmful friction.</p> <p>Describe how friction can be increased and decreased.</p> <p>Due to Weather Day-Plans will shift</p>	<p>GEN BR: Review questions</p> <p>ADV BR: Friction questions</p> <p>Students will:</p> <p>GEN: Complete Forces & Motion Unit Test; organize NB for NB Test.</p> <p>ADV: Complete Checkpoint 5.6; complete Friction Lab; review for Unit 5 Part I Test.</p>	<p>Forces & Motion Unit Test</p> <p>E3/A+ Checkpoint 5.6</p> <p>Friction Lab</p>	<p>Finish any unfinished classwork</p>	<p>Participation; test; 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>F R I</p>	<p>Demonstrate organizational skills.</p> <p>Demonstrate knowledge of Unit 5 Part I.</p> <p>Due to Weather Day-Plans will shift</p>	<p>GEN BR: Review questions</p> <p>ADV BR: Review questions</p> <p>Students will:</p> <p>GEN: Complete Forces & Motion</p>	<p>Forces & Motion NB Test</p> <p>Unit 5 Part I Test</p> <p>Bungee Barbie Lab</p>	<p>Finish any unfinished classwork</p>	<p>Participation; 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>NB Test; make a new title page & table of contents for Newton's Laws of Motion; define vocabulary Ch.2 Lesson 2, 3, & 4..</p> <p>ADV: Complete Unit 5 Part I Test; begin Bungee Barbie Lab..</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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