

3rd Six Weeks

Date: November 4-8

Topic 2 Experience 2: Newton's Laws of Motion

Week 1

	<u>Monday A</u>	<u>Tuesday</u>	<u>Wednesday B</u>	<u>Thursday A</u>	<u>Friday B</u>
TEKS/ SE	8.7B Investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches. Also: 8.7A	LAN Teachers Off	8.7B Investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches. Also: 8.7A	8.7B Investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches. Also: 8.7A	
SEP	8.1C Use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards. 8.2C Use mathematical calculations to assess quantitative relationships in data. Also: 8.1A, 8.1F, 8.1G, 8.2D, 8.3A		8.1C Use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards. 8.2C Use mathematical calculations to assess quantitative relationships in data. Also: 8.1A, 8.1F, 8.1G, 8.2D, 8.3A	8.1C Use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards. 8.2C Use mathematical calculations to assess quantitative relationships in data. Also: 8.1A, 8.1F, 8.1G, 8.2D, 8.3A	
RTC	8.5A Identify and apply patterns to understand and connect scientific phenomena or to design solutions. Also: 8.5B, 8.5G		8.5A Identify and apply patterns to understand and connect scientific phenomena or to design solutions. Also: 8.5B, 8.5G	8.5A Identify and apply patterns to understand and connect scientific phenomena or to design solutions. Also: 8.5B, 8.5G	

<p>Lesson Objective Students will be able to...</p>	<p>Students will identify patterns in quantitative relationships in data to analyze how Newton's three laws of motion act simultaneously within systems.</p>		<p>Students will identify patterns in quantitative relationships in data to analyze how Newton's three laws of motion act simultaneously within systems.</p>	
<p>Lesson Component</p>	<p>Engage: EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76</p> <p>EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 95 Teacher Guide, p. 76</p> <p>Explore: HANDS-ON LAB & VIDEO Open- Inquiry Version: Student Activity Companion, pp. 96-102 Guided- Inquiry Version: Realize Teacher Guide p. 77</p> <p>EXIT TICKET Teacher Guide, p. 76</p>		<p>Engage: EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76</p> <p>EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 95 Teacher Guide, p. 76</p> <p>Explore: HANDS-ON LAB & VIDEO Open- Inquiry Version: Student Activity Companion, pp. 96-102 Guided- Inquiry Version: Realize Teacher Guide p. 77</p> <p>EXIT TICKET Teacher Guide, p. 76</p>	<p>Explain: KEY IDEAS VIDEO Teacher Guide, p. 79</p> <p>READ ABOUT IT Student Activity Companion, p. 104-107 Teacher Guide, p. 80</p> <p>KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 108-109 Teacher Guide, p. 81</p> <p>REVISIT EVERYDAY PHENOMENON Teacher Guide, p. 81</p> <p>EXIT TICKET Teacher Guide, p. 81</p>

Topic 2 Experience 2: Newton's Laws of Motion/6th Grade Topic 2 Experience 2: Measuring Forces

	Monday A	Tuesday B	Wednesday A	Thursday B	Friday A
TEKS/SE	8.7B Investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches. Also: 8.7A		Review/Reteach Topic 2 Experience 2		6.7B Calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced.
SEP	8.1C Use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in Texas Education Agency-approved safety standards. 8.2C Use mathematical calculations to assess quantitative relationships in data. Also: 8.1A, 8.1F, 8.1G, 8.2D, 8.3A				6.1B Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. Also: 6.3B, 6.2D
RTC	8.5A Identify and apply patterns to understand and connect scientific phenomena or to design solutions. Also: 8.5B, 8.5G				6.5C Analyze how differences in scale, proportion, or quantity affect a system's structure or performance. Also: 6.5G
Lesson Objective Students will be able to...	Students will identify patterns in quantitative relationships in data to analyze how Newton's three laws of motion act simultaneously within systems.				<ul style="list-style-type: none"> Students explore balanced and unbalanced forces, calculate net force, and identify force pairs, using Newton's third law of motion. Students conduct experimental investigations to analyze how differences in proportion affect a system.
Lesson Component	Evaluate: EXPERIENCE REVIEW Student Activity Companion, pp. 110-111 Teacher Guide, p. 83 QUIZ Teacher Guide, p. 83 REVISIT THE ANCHORING PHENOMENON Student Activity Companion, pp. 110-111 Teacher Guide, p. 83				Engage: EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76 EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 103 Teacher Guide, p. 76 Explore: QUICK LAB Teacher Guide p. 78 EXIT TICKET Teacher Guide, p. 78

3rd Six Weeks

Date: November 18-November 22

6th Grade Topic 2 Experience 2:Measuring Forces

Week 3

	<u>Monday B</u>	<u>Tuesday A</u>	<u>Wednesday B</u>	<u>Thursday A</u>	<u>Friday B</u>
TEKS/SE	6.7B Calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced.	6.7B Calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced.		6.7B Calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced.	
SEP	6.1B Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. Also: 6.3B, 6.2D	6.1B Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. Also: 6.3B, 6.2D		6.1B Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. Also: 6.3B, 6.2D	
RTC	6.5C Analyze how differences in scale, proportion, or quantity affect a system's structure or performance. Also: 6.5G	6.5C Analyze how differences in scale, proportion, or quantity affect a system's structure or performance. Also: 6.5G		6.5C Analyze how differences in scale, proportion, or quantity affect a system's structure or performance. Also: 6.5G	
Lesson Objective Students will be able to...	<ul style="list-style-type: none"> Students explore balanced and unbalanced forces, calculate net force, and identify force pairs, using Newton's third law of motion. Students conduct experimental investigations to analyze how differences in proportion affect a system. 	<ul style="list-style-type: none"> Students explore balanced and unbalanced forces, calculate net force, and identify force pairs, using Newton's third law of motion. Students conduct experimental investigations to analyze how differences in proportion affect a system. 		<ul style="list-style-type: none"> Students explore balanced and unbalanced forces, calculate net force, and identify force pairs, using Newton's third law of motion. Students conduct experimental investigations to analyze how differences in proportion affect a system. 	
Lesson Component	<p>Engage: EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76</p> <p>EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 103 Teacher Guide, p. 76</p> <p>Explore:</p> <p>QUICK LAB Teacher Guide p. 78</p> <p>EXIT TICKET</p>	<p>Explain: KEY IDEAS VIDEO Teacher Guide, p. 79</p> <p>READ ABOUT IT Student Activity Companion, pp. 108-111 Teacher Guide, p. 80</p> <p>KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 112-113 Teacher Guide, p. 80-81</p>		<p>Evaluate: EXPERIENCE REVIEW Students can demonstrate their understanding of Experience content before taking the Quiz.</p> <p>QUIZ Teacher Guide, p. 83</p> <p>REVISIT THE ANCHORING PHENOMENON Student Activity Companion, pp.114-115 Teacher Guide, p. 83</p>	

	Teacher Guide, p. 78	REVISIT EVERYDAY PHENOMENON Teacher Guide, p. 81 EXIT TICKET Give students 3–5 minutes to answer questions about a scenario in which students push a door with a force of 32 N, while a friend on the other side of the door pushes in the opposite direction with a force of 30 N. Students can write a 4–5 sentence paragraph to explain whether the forces are balanced or not and if the door will move	
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Date: November 25-November 29

	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
TEKS/SE	Thanksgiving Break/No School				
SEP					
RTC					
Lesson Objective Students will be able to...					
Lesson Component					

7th Grade Topic 2 Experience 1:Speed and Velocity

	Monday A	Tuesday B	Wednesday A	Thursday B	Friday A
TEKS/ SE	Review/Reteach Topic 2 Experience 2 Measuring Forces		7.7A Calculate average speed using distance and time measurements from investigations.		7.7A Calculate average speed using distance and time measurements from investigations.
SEP			7.1E Collect quantitative data using the International System of Units (SI) and qualitative data as evidence 7.2C Use mathematical calculations to assess quantitative relationships in data Also: 7.1B, 7.1D, 7.1G, 7.2A, 7.3A, 7.3C		7.1E Collect quantitative data using the International System of Units (SI) and qualitative data as evidence 7.2C Use mathematical calculations to assess quantitative relationships in data Also: 7.1B, 7.1D, 7.1G, 7.2A, 7.3A, 7.3C
RTC			7.5C Analyze how differences in scale, proportion, or quantity affect a system’s structure or performance 7.5G Analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems.		7.5C Analyze how differences in scale, proportion, or quantity affect a system’s structure or performance 7.5G Analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems.
Lesson Objective Students will be able to...			Students will calculate the average speed of objects by using distance and time measurements and consider how scale and proportion affects speed.		Students will calculate the average speed of objects by using distance and time measurements and consider how scale and proportion affects speed.
Lesson Component			Engage: EVERYDAY PHENOMENON DEMO Teacher Guide, p. 56 EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 62 Teacher Guide, p. 56 HANDS-ON LAB & VIDEO Open- Inquiry Version: Student Activity Companion, pp. 64-68 Guided-Inquiry Version: Realize Teacher Guide p. 57 EXIT TICKET Teacher Guide, p. 58		Explain: KEY IDEAS VIDEO Teacher Guide, p. 59 KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 74-75 Teacher Guide, pp. 60-61 Math Support:Using Rates(in SAVVAS) REVISIT EVERYDAY PHENOMENON Teacher Guide, p. 61

7th Grade Topic 2 Experience 1:Speed and Velocity

	<u>Monday B</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday A</u>	<u>Friday B</u>
TEKS/ SE	7.7A Calculate average speed using distance and time measurements from investigations.	ELAR WINTER SHUTDOWN	MATH WINTER SHUTDOWN	Science CA#3	
SEP	7.1E Collect quantitative data using the International System of Units (SI) and qualitative data as evidence 7.2C Use mathematical calculations to assess quantitative relationships in data Also: 7.1B, 7.1D, 7.1G, 7.2A, 7.3A, 7.3C				
RTC	7.5C Analyze how differences in scale, proportion, or quantity affect a system's structure or performance 7.5G Analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems.				
Lesson Objective Students will be able to...	Students will calculate the average speed of objects by using distance and time measurements and consider how scale and proportion affects speed.				
Lesson Component	Explain: KEY IDEAS VIDEO Teacher Guide, p. 59 KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 74-75 Teacher Guide, pp. 60-61 Math Support:Using Rates(in SAVVAS) REVISIT EVERYDAY PHENOMENON Teacher Guide, p. 61				

Date: December 16-20

3rd six Weeks

Week 6

	<u>Monday A</u>	<u>Tuesday A</u>	<u>Wednesday B</u>	<u>Thursday A</u>	<u>Friday B</u>
TEKS/ SE	FLEX		FLEX		LAN TEACHERS OFF
SEP					
RTC					
Lesson Objective Students will be able to...					
Lesson Component					