3rd Six Weeks								
Date: Noven	nber 4-8	Topic 2 Experier	nce 2: Newton's Laws of Motion	Week 1				
	<u>Monday A</u>	<u>Tuesday</u>	Wednesday B	<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 thre 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 practices during laboratory, investigations as outlined in Agency-approved safety states. 8.2C Use mathematical cale quantitative relationships in Also: 8.1A, 8.1F, 8.1G, 8.2 	y equipment and classroom, and field r Texas Education andards. culations to assess data. D, 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 path connect scientific phenome Also: 8.5B, 8.5G	erns to understand and na or to design solutions.			

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.	S qı to la w	Students will identify patterns in Juantitative relationships in data to analyze how Newton's three aws of motion act simultaneously within systems.	
Lesson	Engage:	E	ingage:	
Component	EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76	E' Te	EVERYDAY PHENOMENON VIDEO Teacher Guide, p. 76	KEY IDEAS VIDEO Teacher Guide, p. 79
	EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 95 Teacher Guide, p. 76 Explore: HANDS-ON LAB & VIDEO Open- Inquiry Version: Student Activity Companion, pp. 96-102 Guided- Inquiry Version: Realize Teacher Guide p. 77 EXIT TICKET Teacher Guide, p. 76	E A S S T C H O A G T C T C	EVERYDAY PHENOMENON ACTIVITY Student Activity Companion, p. 95 eacher Guide, p. 76 Explore: ANDS-ON LAB & VIDEO Open- Inquiry Version: Student Activity Companion, pp. 96-102 Guided- Inquiry Version: Realize eacher Guide p. 77 EXIT TICKET Feacher Guide, p. 76	READ ABOUT IT Student Activity Companion, p. 104-107 Teacher Guide, p. 80 KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 108-109 Teacher Guide, p. 81 REVISIT EVERYDAY PHENOMENON Teacher Guide, p. 81 EXIT TICKET Teacher Guide, p. 81

3rd Six Weeks

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

	Monday A	<u>Tuesday B</u>	<u>Wednesday A</u>	<u>Thursday B</u>	<u>Friday A</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		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 sa practices during laborat investigations as outline Agency-approved safety 8.2C Use mathematical quantitative relationship Also: 8.1A, 8.1F, 8.1G, 	afety equipment and ory, classroom, and field d in Texas Education / standards. calculations to assess s in data. 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 and connect scientific p solutions. Also: 8.5B, 8	patterns to understand henomena or to design . 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 pa relationships in data to three laws of motion act systems.	tterns in quantitative analyze how Newton's simultaneously within			 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 Compar Teacher Guide, p. 83 QUIZ Teacher Guide, p. 83 REVISIT THE ANCHORIN Student Activity Compar Teacher Guide, p. 83	ion, pp. 110-111 G PHENOMENON ion, pp. 110-111			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 6th Grade Topic 2 Experience 2:Measuring Forces

Week 3

Date: November 18-November 22

	Monday B	Tuesday A	<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.6Also: 6.3B, 6.2D7		 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 differe or quantity affect a syste performance. Also: 6.5G	ences in scale, proportion, m's structure or	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 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. 	 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. 		 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	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	Explain: KEY IDEAS VIDEO Teacher Guide, p. 79 READ ABOUT IT Student Activity Companion, pp. 108-111 Teacher Guide, p. 80 KEY IDEAS PRESENTATION & TAKE NOTES Student Activity Companion, pp. 112-113 Teacher Guide, p. 80-81		Evaluate: EXPERIENCE REVIEW Students can demonstrate their understanding of Experience content before taking the Quiz. QUIZ Teacher Guide, p. 83 REVISIT THE ANCHORING PHENOMENON Student Activity Companion, pp.114-115 Teacher Guide, p. 83		

Teacher Guide, p. 78 REVISIT	T EVERYDAY PHENOMENON
Teacher	r Guide, p. 81
EXIT TIC	СКЕТ
Give stud about a se a force of the door p force of 3 paragraph balanced	idents 3–5 minutes to answer questions scenario in which students push a door with of 32 N, while a friend on the other side of r pushes in the opposite direction with a 30 N. Students can write a 4–5 sentence ph to explain whether the forces are d or not and if the door will move

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									

3rd Six Weeks

7th Grade Topic 2 Experience 1:Speed and Velocity

	Monday A	<u>Tuesday B</u>	Wednesday A	<u>Thursday B</u>	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 objects by using distance measurements and consi proportion affects speed.	e average speed of and time der how scale and	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 PHENOMENOI Teacher Guide, p. 56 EVERYDAY PHENOMENOI Student Activity Companio Teacher Guide, p. 56 HANDS-ON LAB & VIDEO Open- Inquiry Version: Stu Companion, pp. 64-68 Guided-Inquiry Version: R Teacher Guide p. 57 EXIT TICKET Teacher Guide, p. 58	N DEMO N ACTIVITY on, p. 62 Ident Activity ealize	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	

3rd Six Weeks

7th Grade Topic 2 Experience 1:Speed and Velocity

	<u>Monday B</u>	Tuesday	Wednesday	Thursday A	<u>Friday B</u>
TEKS/	7.7A Calculate average speed using distance and time measurements		MATH WINTER	Scien	ce CA#3
SE	from investigations.	SHUTDOWN	SHUTDOWN		
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/	FLEX		FI FX		LAN TEACHERS OFF
52					
SEP					
RTC					
Lesson					
Objective					
Students will					
be able to					
Lesson					
Component					