Date: November 4-8 **3rd Six Weeks** **Week 1**

Topic 2 Experience 3:Newton's First Law of Motion

	Monday A	Tuesday	Wednesday B	Thursday A	Friday B
TEKS/ SE	**7.7D** Analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion.	**LAN TEACHERS OFF**	**7.7D** Analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion.	**7.7D** Analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion.	
SEP	**7.1B** Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. **7.3A** Develop explanations and propose solutions supported by data and models consistent with scientific ideas, principles, and theories **Also: 7.1A, 7.3B, 7.1G**		**7.1B** Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. **7.3A** Develop explanations and propose solutions supported by data and models consistent with scientific ideas, principles, and theories **Also: 7.1A, 7.3B, 7.1G**	**7.1B** Use scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems. **7.3A** Develop explanations and propose solutions supported by data and models consistent with scientific ideas, principles, and theories **Also: 7.1A, 7.3B, 7.1G**	
RTC	**7.5B** Identify and investigate cause-and-effect relationships to explain scientific phenomena or analyze problems **7.5G** Analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems.		**7.5B** Identify and investigate cause-and-effect relationships to explain scientific phenomena or analyze problems **7.5G** Analyze and explain how factors or conditions impact stability and change in objects, organisms, and systems.	**7.5B** Identify and investigate cause-and-effect relationships to explain scientific phenomena or analyze problems **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 investigate the effects of balanced and unbalanced forces on an object's state of motion and use Newton's first law of motion to analyze these effects.		Students will investigate the effects of balanced and unbalanced forces on an object's state of motion and use Newton's first law of motion to analyze these effects.	Students will investigate the effects of balanced and unbalanced forces on an object's state of motion and use Newton's first law of motion to analyze these effects.	
Lesson Component	**Explain:** **KEY IDEAS VIDEO** **Teacher Guide, p. 79**		**Explain:** **KEY IDEAS VIDEO** **Teacher Guide, p. 79**	**Elaborate:** **LEGENDS OF LEARNING** **Teacher Guide, p. 82**	

	READ ABOUT IT **Student Activity Companion, pp. 100-103** **Teacher Guide, p. 80** **KEY IDEAS PRESENTATION & TAKE NOTES** **Student Activity Companion, pp. 104-105** **Teacher Guide, p. 80-81** **REVISIT EVERYDAY PHENOMENON** **Teacher Guide, p. 81** **EXIT TICKET** **Teacher Guide, p. 81**		**READ ABOUT IT** **Student Activity Companion, pp. 100-103** **Teacher Guide, p. 80** **KEY IDEAS PRESENTATION & TAKE NOTES** **Student Activity Companion, pp. 104-105** **Teacher Guide, p. 80-81** **REVISIT EVERYDAY PHENOMENON** **Teacher Guide, p. 81** **EXIT TICKET** **Teacher Guide, p. 81**	**Evaluate:** **EXPERIENCE REVIEW** **Student Activity Companion, p.107** **Teacher Guide, p. 83** **QUIZ** **Teacher Guide, p. 83**

Date: November 11-15 **3rd Six Weeks** **Week 2**

Topic 2 Experience 3:Newton's First Law of Motion/Topic 3 Experience 1: Thermal Energy

	Monday A / Tuesday B	Wednesday A / Thursday B	Friday A
TEKS/ SE	**Review/Reteach Experience Topic 2 Experience 3**	**7.8C** Explain the relationship between temperature and the kinetic energy of the molecules within a substance.	**7.8C** Explain the relationship between temperature and the kinetic energy of the molecules within a substance.
SEP		**7.3A** Develop explanations and propose solutions supported by data and models and consistent with scientific ideas, principles, and theories. **Also: 7.1E, 7.1G**	**7.3A** Develop explanations and propose solutions supported by data and models and consistent with scientific ideas, principles, and theories. **Also: 7.1E, 7.1G**
RTC		**7.5E** Analyze and explain how energy flows and matter cycles through systems and how energy and matter are conserved through a variety of systems. **Also: 7.5B, 7.5G**	**7.5E** Analyze and explain how energy flows and matter cycles through systems and how energy and matter are conserved through a variety of systems. **Also: 7.5B, 7.5G**

Lesson Objective Students will be able to...		Students will use models to analyze and develop explanations about the relationship between temperature and the kinetic energy of the molecules within a substance.	Students will use models to analyze and develop explanations about the relationship between temperature and the kinetic energy of the molecules within a substance.
Lesson Component		**Engage** **EVERYDAY PHENOMENON DEMO** **Teacher Guide, p. 94** **EVERYDAY PHENOMENON ACTIVITY** **Student Activity Companion, p. 114** **Teacher Guide, p. 94** **Explore** **HANDS-ON LAB & VIDEO** **Open- Inquiry Version: Student Activity Companion, pp. 116-119** **Guided- Inquiry Version: Realize** **Teacher Guide p. 95** **EXIT TICKET** **Teacher Guide, p. 96**	**Explain:** **KEY IDEAS VIDEO** **Teacher Guide, p. 97** **READ ABOUT IT** **Student Activity Companion, pp. 122-125** **Teacher Guide, p. 98** **KEY IDEAS PRESENTATION & TAKE NOTES** **Student Activity Companion, pp. 126-127** **Teacher Guide, p. 98-99** **REVISIT EVERYDAY PHENOMENON** **Teacher Guide, p. 99** **EXIT TICKET** **Teacher Guide, p. 99**

3rd Six Weeks

Date: November 18-22 **Week 3**

Topic 3 Experience 1: Thermal Energy

	Monday B	Tuesday A	Wednesday B	Thursday A	Friday B
TEKS/ SE	**7.8C** Explain the relationship between temperature and the kinetic energy of the molecules within a substance.	**7.8C** Explain the relationship between temperature and the kinetic energy of the molecules within a substance.		**Reteach Topic 3 Experience 1**	
SEP	**7.3A** Develop explanations and propose solutions supported by data and models and consistent	**7.3A** Develop explanations and propose solutions supported by data and models and			

	with scientific ideas, principles, and theories. **Also: 7.1E, 7.1G**	consistent with scientific ideas, principles, and theories. **Also: 7.1E, 7.1G**	
RTC	**7.5E** Analyze and explain how energy flows and matter cycles through systems and how energy and matter are conserved through a variety of systems. **Also: 7.5B, 7.5G**	**7.5E** Analyze and explain how energy flows and matter cycles through systems and how energy and matter are conserved through a variety of systems. **Also: 7.5B, 7.5G**	
Lesson Objective Students will be able to...	Students will use models to analyze and develop explanations about the relationship between temperature and the kinetic energy of the molecules within a substance.	Students will use models to analyze and develop explanations about the relationship between temperature and the kinetic energy of the molecules within a substance.	
Lesson Component	**Explain:** **KEY IDEAS VIDEO** **Teacher Guide, p. 97** **READ ABOUT IT** **Student Activity Companion, pp. 122-125** **Teacher Guide, p. 98** **KEY IDEAS PRESENTATION & TAKE NOTES** **Student Activity Companion, pp. 126-127** **Teacher Guide, p. 98-99** **REVISIT EVERYDAY PHENOMENON** **Teacher Guide, p. 99** **EXIT TICKET** **Teacher Guide, p. 99**	**Explore** **PhET ACTIVITY** **Teacher Guide, p. 96** **Evaluate** **EXPERIENCE REVIEW** **Student Activity Companion, p. 129** **Teacher Guide, p. 291** **QUIZ** **Teacher Guide, p. 101** **REVISIT THE ANCHORING PHENOMENON** **Student Activity Companion, pp. 110-111** **Teacher Guide, p. 101**	

Date: November 25-29

	Monday	Tuesday	Wednesday	Thursday	Friday
TEKS/ SE	**THANKSGIVING BREAK/NO SCHOOL**				
SEP					
RTC					
Lesson Objective Students will be able to...					
Lesson Component					

3rd Six Weeks

Date: December 2-6 **Topic 3 Experience 2: Thermal Energy Transfer** **Week 4**

	Monday A	Tuesday B	Wednesday A	Thursday B	Friday A
TEKS/ SE	**FLEX**		**7.8A** Investigate methods of thermal energy transfer into and out of systems, including conduction, convection, and radiation. **Also: 7.8B, 7.8C**		**7.8A** Investigate methods of thermal energy transfer into and out of systems, including conduction, convection, and radiation. **Also: 7.8B, 7.8C**
SEP			**7.1G** Develop and use models to represent phenomena, systems, processes, or solutions to engineering problems. **Also: 7.3A**		**7.1G** Develop and use models to represent phenomena, systems, processes, or solutions to engineering problems. **Also: 7.3A**
RTC			**7.5E** Analyze and explain how energy flows and matter cycles through systems and how energy		**7.5E** Analyze and explain how energy flows and matter cycles through systems

		and matter are conserved through a variety of systems. **Also: 7.5D**	and how energy and matter are conserved through a variety of systems. **Also: 7.5D**
Lesson Objective Students will be able to...		Students will use models to analyze and explain how thermal energy moves into, out of, and within systems through conduction, convection, and radiation.	Students will use models to analyze and explain how thermal energy moves into, out of, and within systems through conduction, convection, and radiation.
Lesson Component		**Engage** **EVERYDAY PHENOMENON PHOTO** **Teacher Guide, p. 104** **EVERYDAY PHENOMENON ACTIVITY** **Student Activity Companion, p. 131** **Teacher Guide, p. 104** **HANDS-ON LAB & VIDEO** **Open- Inquiry Version: Student Activity Companion, pp. 132-138** **Guided- Inquiry Version: Realize** **Teacher Guide p. 105** **EXIT TICKET** **Teacher Guide, p. 104**	**Explain** **KEY IDEAS VIDEO** **Teacher Guide, p. 107** **READ ABOUT IT** **Student Activity Companion, pp. 140-143** **Teacher Guide, p. 108** **KEY IDEAS PRESENTATION & TAKE NOTES** **Student Activity Companion, pp. 144-145** **Teacher Guide, p. 108-109** **REVISIT EVERYDAY PHENOMENON** **Teacher Guide, p. 109** **EXIT TICKET** **Teacher Guide, p. 109**

Date: December 9-13 **3rd Six Weeks** **Week 5**

	Monday B	Tuesday A	Wednesday B	Thursday A	Friday B
TEKS/ SE	**FLEX**	**ELAR WINTER SHUTDOWN**	**MATH WINTER SHUTDOWN**	**Science CA#3**	
SEP					
RTC					
Lesson Objective Students will be able to...					
Lesson Component					

Date: December 16-20 **Week 6**

3rd Six Weeks

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