Unit 3 Section 1: Molecules in Motion

Module 5

Unit 3 Textbook Resource Slides Unit 3 Summary PDF

Dates of Completion	OBJECTIVES/TOPICS	LEARNING TARGETS	LEARNING OPPORTUNITIES / RESOURCES Make sure that you pick at Least TWO (2) in this column to explore	PERFORMANCE TASK
Introduction Material Resources	**Weather Phenomena Introduction**	I can describe basic components of a weather map and describe the weather patterns in relation to tornadoes.	**Phenomena Routine** Weather Maps Vocabulary **Extra resources:** Google Slides from LBC	
10/30	**Obj A: Thermometers and Molecule Motions** .	I can describe and model how a thermometer works using the kinetic theory.	This objective corresponds with Lesson 52 in your textbook. **Video Resource** ❏ How Does A Thermometer Work? **Image Resource** ❏ Thermometer Simulation ❏ Thermometer Model Explained ❏ Lesson 52 Textbook PDF ❏ Lesson 52 Textbook Slides **Practice Resource** ❏ Thermometer Practice	Due: Obj A Performance Task
10/30	**Obj A1: Kinetic Molecular Theory**	I can explain and model the kinetic molecular theory.	This objective corresponds with Lesson 53 in your textbook. **Video Resource** ❏ Kinetic Molecular Theory Explained	

			❏ Absolute Zero **Image Resource** ❏ Kelvin Temperature Scale- Why Used? ❏ Kinetic Molecular Theory ❏ Kinetic Molecular Theory Simulation ❏ Guided questions ❏ Lesson 53 Textbook PDF ❏ Lesson 53 Textbook Slides **Practice Resource** ❏ Kinetic Molecular Theory Practice	
10/31, 11/1	**Volume and Temperature**	**Obj B: Modeling** I can create a model that shows the motion of gas particles under changing conditions (pressure, volume, temperature). **Obj C: Explanation** I can explain the cause and effect of pressure, temperature, and volume on molecules. **Obj D: Mathematical Relationship** I can calculate the **mathematical relationship** between pressure, temperature, and volume.	This objective corresponds with Lesson 54 in your textbook. **Video Resource** ❏ Volume and Temperature Relationship Explained ❏ Volume and Temperature Example Calculation ❏ Volume and Temperature Demo **Image Resource** ❏ Modeling and Explaining Relationship of V & T ❏ V & T Explanation Part 2 ❏ Mathematical Relationship of V & T ❏ Mathematical Calculations Relationship V & T ❏ Lesson 54 Textbook PDF ❏ Lesson 54 Textbook Slides **Practice Resource** ❏ Volume and Temperature: Practice Resources ❏ Volume and Temperature Simulation	Due: Volume and Temperature Relationship Performance Task

11/4 & 11/ 6 **11/7-** **Obj A, A1 and P&V and V&T Quiz**	**Pressure and Volume**	**Obj B: Modeling** I can create a model that shows the motion of gas particles under changing conditions (pressure, volume, temperature). **Obj C: Explanation** I can explain the cause and effect of pressure, temperature, and volume on molecules. **Obj D: Mathematical Relationship** I can calculate the **mathematical relationship** between pressure, temperature, and volume.	This objective corresponds with Lesson 58 in your textbook. **Video Resource** ❏ Pressure and Volume Explained. ❏ Pressure and Volume Example Calculation ❏ Pressure and Volume Demo **Image Resource** ❏ Modeling and Explaining Relationship of P & V ❏ Mathematical Relationship of P & V ❏ Mathematical Calculations Relationship of P & V ❏ P & V simulation ❏ Lesson 58 Textbook PDF ❏ Lesson 58 Textbook Slides **Practice Resource** ❏ Pressure and Volume practice Resources ❏ Pressure and Volume Simulation	Due Pressure and Volume Relationship Performance Task
11/11 & 11/12 **11/13 Lab**	**Temperature and Pressure**	**Obj B: Modeling** I can create a model that shows the motion of gas particles under changing conditions (pressure, volume, temperature). **Obj C: Explanation** I can explain the cause and effect of pressure, temperature, and volume on molecules. **Obj D: Mathematical Relationship** I can calculate the **mathematical relationship**	This objective corresponds with Lesson 59 in your textbook. **Video Resource** ❏ Temperature and Explaining the Relationship T & P ❏ Temperature and Pressure Example Calculation ❏ Can Crush Demo **Image Resource** ❏ Modeling and Explaining Relationship of T & P ❏ Mathematical Relationship of T & P	Due: Temperature and Pressure Performance Task

		between pressure, temperature, and volume.	❏ Mathematical Calculations Relationship of T & P ❏ Lesson 59 Textbook PDF ❏ Lesson 59 Textbook Slides **Practice Resource** ❏ Temperature and Pressure practice Resources ❏ Temperature and Pressure Simulation	
		UNIT 3 Section 1 ASSESSMENT/PROJECT		
		Unit 3 Assessment **Review 11/14** **Assessment 11/15**		