

## 8<sup>th</sup> Grade Science Course 2 – Interactions of Energy & Matter Proficiency Sheet

Lessons	Topics	Learning Target	Activities	Score/%	Date taken
<b>Pretest</b>			Course 2 Interactions of Energy & Matter Pretest (fsicourses.net)		
<b>Lesson 2.1 Energy Transformations</b>	<b>Topic 2.1 Energy Transformations</b>	I can explain energy transformations within a system.	1. Energy Transformations Pretest (fsicourses.net)		
			2. Energy Transformations video notes (liveworksheets.com)		
			3. Energy Transformations Interactive 1 (liveworksheets.com)		
			4. Energy Transformations Interactive 2 (liveworksheets.com)		
			5. Energy Transformations Foldable (Print Out)		
			6. Energy Transformations Interactive 3 (liveworksheets.com)		
			7. Energy Transformations Stations Lab (Print Out)		
			8. Energy Transformations Post test (fsicourses.net)		
<b>Lesson 2.2 Heat Transfer &amp;</b>	<b>Heat Transfer &amp; Molecular Motion</b>	I can describe and explain thermal energy changes in terms of conduction, convection, and radiation.	1. Thermal Energy Changes Pretest (fsicourses.net)		

<b><i>Molecular Motion</i></b>					
			2. Thermal Energy Changes Video Notes (liveworksheets.com)		
			3. Thermal Energy Changes Interactive (liveworksheets.com)		
			4. Thermal Energy Changes Foldable (Print Out)		
			5. Thermal Energy Transfer Gallery Walk (Print Out)		
			6. Thermal Energy Transfer Reading for Meaning (Print Out)		
			7. Thermal Energy Transfer Lab Stations (Print Out)		
			8. Thermal Energy Transfer Post test (fsicourses.net)		
<b><i>Lesson 2.3 Potential &amp; Kinetic Energy</i></b>	<b>2.3a Potential &amp; Kinetic Energy</b>	I can analyze and interpret data to create graphical displays that illustrate the relationships of kinetic energy to mass and speed, and potential energy to mass and height of an object.	1. Potential & Kinetic Energy Pretest (fsicourses.net)		
			2. Analyzing Potential & Kinetic Energy Video Notes (liveworksheets.com)		
			3. Potential & Kinetic Energy Graphical Analysis Interactive (liveworksheets.com)		
			4. Potential vs. Kinetic Energy 1-Pager (Print Out)		

			5. Graphing Kinetic Energy Activity (Print out)		
			6. Energy Skate Park (fsicourses.net)		
			7. Golf Ball vs. Tennis Ball GPE Lab (fsicourses.net)		
			8. Potential & Kinetic Energy Post test (fsicourses.net)		
	<b>2.3b All About Roller Coasters</b>	I will be able to describe and explain how roller coasters work through the relationship between gravity, potential energy, and kinetic energy.	1. How Roller Coasters Work Pretest (fsicourses.net)		
			2. Roller Coasters Video Notes (liveworksheets.com)		
			3. Roller Coaster Interactive Activity (liveworksheets.com)		
			4. Potential vs. Kinetic Energy Roller Coaster Analysis Activity (liveworksheets.com)		
			5. Marble Roller Coaster Lab (Print Out)		
			6. How Roller Coasters Work Post test (fsicourses.net)		
<b>Post Test</b>			1. Course 2 Review (liveworksheets.com)		
			2. Course 2 Interactions of Energy & Matter Assessment (fsicourses.net)		