**6th Grade Science Lesson**

**1. Lesson Topic/Title and Pacing**

* **Living Environment**
* **Standard: 4**
* **Key Idea: 4 – Energy exists in many forms, and when these forms change energy is conserved.**
* **Performance Indicator: 4.1 – Describe the sources and identify the transformations of energy in everyday life.**
* **Major Understanding: 4.1e – Energy can be considered to be either kinetic energy, which is energy in motion, or potential energy, which depends on relative position.**

**2. Performance Objectives**

* **Explain the difference between kinetic and potential energy.**

**3. Vocabulary**

* **Kinetic energy, potential energy, relative position, motion, mass, gravity, velocity**

**4. Activity**

* **Demonstrate: (i.e. rubber band stretch) identify the points of greatest and least potential energy**
* **Label diagram of an activity (roller coaster) identify where the greatest potential energy would exist.**

**5. Assessment/Student Outcome**

* **Explain and give an example of the conditions of potential energy**