**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: 4.1a – The Sun is a major source of energy for Earth. Other sources of energy include nuclear and geothermal energy.**

**2. Performance Objectives**

* **Explain why the Sun is the major source of energy for the Earth.**
* **Explain why geothermal and nuclear energy sources on Earth are not dependent on the sun.**

**3. Vocabulary**

* **Sun, energy, nuclear energy, geothermal energy**

**4. Activity**

* **Draw and label a concept map showing the sun as the major source of energy (including photosynthesis, food web, water cycle and development of fossil fuels).**
* **Conduct activities with balloon rockets to observe Newton’s third law of motion.**

**5. Assessment/Student Outcome**

* **Explain or diagram the Sun’s importance in the food pyramid.**