**6th Grade Science Lesson**

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

* **Living Environment**
* **Standard: 4**
* **Key Idea: 5 – Organisms maintain a dynamic equilibrium that sustain life.**
* **Performance Indicator: 5.1 – Compare the way a variety of living specimens carry out basic life functions and maintain dynamic equilibrium.**
* **Major Understanding: 5.1c – All organisms require energy to survive. The amount of energy needed and the method for obtaining this energy vary among cells. Some cells use oxygen to release the energy stored in food.**

**2. Performance Objectives**

* **Identify the substances required for cells to release energy.**
* **Recognize that cells obtain energy in different ways.**
* **Identify energy as a basic need for survival of organisms.**
* **Recognize that cells require varying amounts of energy.**

**3. Vocabulary**

* **Energy, oxygen, respiration, glucose, carbon dioxide, ATP**

**4. Activity**

* **Discuss the process for plant and animal cells to obtain energy.**
* **Compare various methods used by cells to obtain energy.**

**5. Assessment/Student Outcome**

* **List the basic needs of organisms including energy.**
* **Identify that SOME cells use oxygen to release energy from food.**