**6th Grade Science Lesson**

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

* **Living Environment**
* **Standard: 5**
* **Key Idea: 5 – Energy and matter interact through forces that result in changes in motion.**
* **Performance Indicator: 5.1 – Describe different patterns in motion of objects.**
* **Major Understanding: 5.1c – An object’s motion is the result of the combined effect of all forces acting on the object. A moving object that is not subjected to a force will continue to move at a constant speed in a straight line. An object at rest will remain at rest.**

**2. Performance Objectives**

* **Explain how force is related to motion.**
* **Describe how friction impacts the motion of objects.**

**3. Vocabulary**

* **Newton’s first law of motion, force, inertia, friction, constant speed acceleration**

**4. Activity**

* **Conduct activities to investigate the factors that affect the speed of various objects.**

**5. Assessment/Student Outcome**

* **Identify and describe Newton’s Laws of motion.**
* **Describe friction and how it interferes with moving objects.**