**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: 5.1a – The motion of objects is always judged with respect to some other object or point. The idea of absolute motion or rest is misleading.**

**2. Performance Objectives**

* **Explain why motion must be described using a frame of reference.**
* **Describe how motion occurs with respect to a particular frame of reference.**

**3. Vocabulary**

* **Frame of reference**

**4. Activity**

* **Spin a “top” toy or a student on a chair. Ask the students to describe the motion of the top or the student.**
* **Have a student on the chair hold a book while spinning. Ask the class and the student on the chair to describe the motion of the book.**

**5. Assessment/Student Outcome**

* **Identify and describe Newton laws of motion.**
* **Describe how a frame of reference is used to describe motion.**