Lesson Plan

**Rashida Lake**

Science: How gravity works

Suggested Grade Level: Kindergarten

Time: 25 minutes over 3 days (75 minutes total)

Lesson Standard: Explore the Law of Gravity by investigating how objects are pulled toward the ground unless something holds them up. (SC.K.E.5.1)

Learning Goal: Students will demonstrate how gravity works by dropping various objects. Students will also demonstrate what happens when something acts against gravity, such as the floor stopping a ball from continuously falling. Being able to analyze how gravity plays a role in holding the world, as we know it, together is important. By seeing how gravity works to keep things in place, students should also be able to explain what the world would be like if there was an absence of gravity. The ultimate goal is that students will be able to take a small scale example and apply it to the larger scheme of the world.

Learning Objective: Students will demonstrate knowledge of gravity by explaining why an object falls when dropped while dropping an object. Students should be able to explain, in their own words, without the aid of the teacher and other students.

I can statements to post for students:

* I can show how gravity works by throwing up and dropping various items.
* I can show what happens when something is put in the way of an object falling.
* I can create a storybook that illustrates how gravity works.
* I can explain what happens when there is no gravity.

Lesson Details

Opening: “I/teacher do”- Explain to students what gravity is and how it works to keep everything on Earth together. (5-8 minutes on first day)

Activity: “We/teacher and students do”- Use a ball to demonstrate how gravity causes an object fall. Also throw the ball up in the air to show how gravity makes whatever goes up, come down. \*Talk about gravity or absence of gravity on the moon. Show videos of astronauts walking on the moon from Apollo missions on Youtube. (10-15 minutes on first day)

Activity: “You/students do”- Create a story book showing each step of what happens when gravity acts on an object. *This is also the assessment for the lesson.* (25 minutes on second day)

Extension of Lesson: Students will watch a video titled “Gravity on Earth Versus Gravity in Space: What's the Difference?” \*http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/ Gravity\_on\_Earth\_Versus.html (25 minutes on third day) Use time after movie for review.