

Physical Science 6

(Copy the following lab activity set up in your science notebook.)

Title: Activity 10 "Gravity and Motion"

Stated Problem: How do objects move under the influence of gravity?

Background:

When you drop something, why does it fall down, not up?

What keeps us from floating off into space?

Hypothesis: *(Create a hypothesis based on what you know about gravity.)*

Vocabulary:

Word	Definition	Picture
gravity		
free fall		
orbit		

Materials:

Table captains check that your lab trays have all of the same materials at the start and end of each lab.

Procedures:

1. Read pages 42 - 49 in *Motion, Forces, and Energy* book.
2. Answer questions #5 - 13 beginning on page 44. Write answers in science notebook in Data/Results section.
3. Do Lesson Review on page 51, questions 1 - 10. Write answers in science notebook in Data/Results section.
4. Complete Activity 10 Lab 1 "Gravity and Distance". Follow directions in lab handout. Answer all questions in handout.
5. Complete Activity 10 Lab 2 "Free-Fall Distances". Follow directions in lab handout. Answer all questions in handout.

Data/Results:

(Write observations, make drawings, and answers questions from book reading in your science notebook under this section.)

Conclusion:

How do objects move under the influence of gravity? Use data/evidence from the reading and Activity 10 Lab 1 and Lab 2 to support your answer.
