

Science Is..



Name: _____ #: _____

Subject: _____ Section: _____

Date: _____ HR: _____

Conducting a Scientific Investigation

Posing Questions

scientific question: _____

Why is a scientific question important to a scientific investigation?

Write a scientific question that could lead to an experiment involving a marble's velocity at different ramp heights.

Developing a Hypothesis

hypothesis: _____

On what information do scientists base their hypotheses?

Write a hypothesis based on the scientific question that you made about a marbles velocity at different ramp heights.

Designing an Experiment: Controlling Variables & Forming Operational Definitions

variable: _____

manipulated variable: _____

How might the experiment be affected if Container 1 had only 100 mL of water?

responding variable: _____

What if Container 3 was not included in the experiment?

operational definition: _____

What operational definition is used in this experiment?

Interpreting Data

What if the students forgot to record the times that they made their observations in the experiment?

Why are data tables and graphs a good way to organize data?

What conclusions can you draw about this experiment?
