Name: _____
Date: _____ Section: _____ HR: _____

Forming A Hypothesis Using Cause and Effect

GROUP C

Scenario 1
Investigative Question: What happens to the speed at which a marble travels when the height of a ramp is changed?
Hypothesis: If the ramp is taller, the marble will roll at a greater pace.

Cause: _____

Effect: _____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 2
Investigative Question: Which dishwashing detergent removes grease faster?

Hypothesis: _____

Cause: _____

Effect: _____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 3
Investigative Question: What will happen if salt is added to ice?
Hypothesis:

_____

_____

Cause: _____

Effect: _____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 4
Investigative Question: What conditions affect the growth of seeds?
Hypothesis:

_____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 5
Investigative Question: What affects the amount of popped kernels you get when you microwave popcorn?

Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 6
Investigative Question: What can affect the flight of a paper airplane?

Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 7
Investigative Question: Does the size of the wheel affect the velocity of the car when rolled down a ramp?
Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 8
Investigative Question: What habitat will an earthworm prefer?
Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 9
Brock is trying to decide which of two skateboards to buy. He wants the one that will give him the longest ride off of a ramp. Write an investigative question. Remember the effect must be measurable.

Investigative Question: _____

_____

Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

Scenario 10
Donna is a very clumsy individual. She uses a lot of paper towels to clean up her spills. Help her to find the most suitable paper towel.

Investigative Question: _____

_____

Hypothesis: _____

_____

Controlled Variables:

_____

_____

Variable Being Tested:

_____

EXTENSION

Think of a practical problem you would like to solve. Write a hypothesis for this problem and design a controlled experiment. Describe in detail the procedure to your experiment, being sure to include the variables you would control and the variable being tested. Be sure to state what you will be observing quantitatively (measuring).

Remember, you do not have to conduct this experiment, just design it!!!!!

Hypothesis: _____

Materials:

Procedure:

Controlled Variables