

Scientific Inquiry Worksheet

1. Define "hypothesis"

2. a) If I do my science homework at night, then _____

b) If _____, then I will be able to buy a new bike

3. Develop a hypothesis or prediction for the following situation:

You have a long distance to travel when your gas needle signals empty.

Hypothesis: _____

Reasoning: _____

4. Problem: Does the depth of an oar stroke affect how far a canoe will travel?

Hypothesis: _____

Independent Variable: _____

Dependent Variable: _____

List 3 controlled variables: _____

5. Problem: Does the colour of the walls affect a person's mood?

Hypothesis: _____

Independent Variable: _____

Dependent Variable: _____

List 3 controlled variables: _____

6. In an experiment, three bean plants are grown in different types of soil. One plant is grown in clay, another in sand, and the last in potting soil.

What problem is the experimenter trying to solve?

Develop a hypothesis for this experiment.