

IDENTIFYING VARIABLES

For each testable question,
underline the independent variable, circle the dependent variable, and list 3 constant/control variables.
Then, write a hypothesis or prediction.

Independent Variable- One thing that the experimenter changes on purpose
Dependent Variable- Something that changes as a result of the independent variable
(often what is measured)
Constant/Control Variable - Something kept the same on purpose

1. How does the distance from an eye chart affect the number of letters that are recognized on a line?
Constant/Control Variables: _____
Hypothesis/Prediction: _____
2. How does the amount of light affect the growth of a plant?
Constant/Control Variables: _____
Hypothesis/Prediction: _____
3. How does the amount of oxygen in the water affect the oyster population?
Constant/Control Variables: _____
Hypothesis/Prediction: _____
4. How will the amount of fertilizer used on a field affect the number of earthworms found there?
Constant/Control Variables: _____
Hypothesis/Prediction: _____
5. How does the length of a string affect the number of times a pendulum will swing back and forth in 10 seconds?
Constant/Control Variables: _____
Hypothesis/Prediction: _____
6. How does the size of a bicycle tire affect the distance it will travel when it is pedaled in a given number of times?
Constant/Control Variables: _____
Hypothesis/Prediction: _____