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: ______________________________________