Name:	#
Date:_	Core:

#### Writing Hypotheses

Write a hypothesis for each of the following using the correct format.

#### Example:

Independent Variable:	length of time spent studying for math tests
Dependent Variable:	grades on math tests

Hypothesis: *If* the amount of time spent studying for math tests is increased, *then* the grades on math tests will also increase.

1. Independent Variable: length of time spent at batting practice Dependent Variable: batting average

Hypothesis: If		 	
then			

2. Independent Variable: depth of Jordan Lake Dependent Variable: water temperature

Hypothesis: If	
then	

3. Independent Variable: length of string telephone Dependent Variable: clarity of sound in paper cups

Hypothesis: If	 
then	 

Independent Variable: temperature of water
Dependent Variable: dissolving time of powdered drink mix (Kool Aid, Crystal Light)

Hypothesis: If	f	
then		

5. Independent Variable: temperature outside Dependent Variable: number cricket chirps

Hypothesis:	[f	
then		<u> </u>



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### Hypothesis Checklist

## I. Which of the following are true for a well-written hypothesis?

1. A hypothesis must state the independent and dependent variables.

2. A hypothesis attempts to answer the 'problem' that inspired the experiment or research. <u>Yes/No</u>

3. A hypothesis that is proven wrong is meaningless and the experiment will have to be repeated.  $\underline{Yes/No}$ 

4. A hypothesis is always written as a question.

5. A hypothesis must be written in measurable and testable terms.

Yes/No

Yes/No

Yes/No

# II. Identify the independent and dependent variables in the following hypotheses.

6. If the amount of fertilizer used on a house plant is increased, then the plant will grow larger than a plant with a constant amount of fertilizer.

independent variable \_\_\_\_\_\_ dependent variable \_\_\_\_\_

## 

8.	If the amount of time spent washing hands is increased, then the growth rate
of	bacteria will decrease.

independent variable _	
dependent variable	