

Name _____

Date _____

Writing Testable Research Hypotheses

In-Class Activity

Below, you will find two lists of variables that can be used to practice creating experimental and correlational hypotheses.

For each new page (Pair #):

Pick one variable from each list, and then operationally define each of the variables you have selected in the Variables Table on the page you are using for that pair of variables. Next, complete the Hypothesis Table for that pair of variables by applying the operational definitions, identifying levels of the independent variable (for experimental approaches), selecting whether the hypothesis will be directional or non-directional, and then writing a complete hypothesis that applies each of the previous elements from that section of the table. You will use each pair of variables to construct two hypotheses, with one being an experimental hypothesis and the other being a correlational hypothesis.

Variable #1

Exercise
Sleep
Diet
Social media usage
Watching TV
Studying behaviors
Spending habits
Texting habits
Caffeine consumption
Volunteering habits
Traffic conditions

Variable #2

Self-esteem
Anxiety
Happiness
Academic performance
Social media popularity
Driving performance
Reading comprehension
Anger
Memory performance
Job satisfaction
Physical strength

Pair #1

Variables Table:

A.	Choice from Variable #1 list (as written in list):	
B.	Operationally-defined version of Variable #1 choice:	
C.	Choice from Variable #2 list (as written in list):	
D.	Operationally-defined version of Variable #2 choice:	

Hypothesis Table:

<i>Experimental Approach</i>		<i>Correlational Approach</i>	
Operationally-defined independent variable (box B):		First operationally-defined variable in correlation (box B):	
Levels of operationally-defined independent variable:			
Operationally-defined dependent variable (box D):		Second operationally-defined variable in correlation (box D):	
Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional	Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional
Experimental Hypothesis:		Correlational Hypothesis:	

Pair #2

Variables Table:

A.	Choice from Variable #1 list (as written in list):	
B.	Operationally-defined version of Variable #1 choice:	
C.	Choice from Variable #2 list (as written in list):	
D.	Operationally-defined version of Variable #2 choice:	

Hypothesis Table:

<i>Experimental Approach</i>		<i>Correlational Approach</i>	
Operationally-defined independent variable (box B):		First operationally-defined variable in correlation (box B):	
Levels of operationally-defined independent variable:			
Operationally-defined dependent variable (box D):		Second operationally-defined variable in correlation (box D):	
Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional	Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional
Experimental Hypothesis:		Correlational Hypothesis:	

Pair #3

Variables Table:

A.	Choice from Variable #1 list (as written in list):	
B.	Operationally-defined version of Variable #1 choice:	
C.	Choice from Variable #2 list (as written in list):	
D.	Operationally-defined version of Variable #2 choice:	

Hypothesis Table:

<i>Experimental Approach</i>		<i>Correlational Approach</i>	
Operationally-defined independent variable (box B):		First operationally-defined variable in correlation (box B):	
Levels of operationally-defined independent variable:			
Operationally-defined dependent variable (box D):		Second operationally-defined variable in correlation (box D):	
Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional	Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional
Experimental Hypothesis:		Correlational Hypothesis:	

Pair #4

Variables Table:

A.	Choice from Variable #1 list (as written in list):	
B.	Operationally-defined version of Variable #1 choice:	
C.	Choice from Variable #2 list (as written in list):	
D.	Operationally-defined version of Variable #2 choice:	

Hypothesis Table:

<i>Experimental Approach</i>		<i>Correlational Approach</i>	
Operationally-defined independent variable (box B):		First operationally-defined variable in correlation (box B):	
Levels of operationally-defined independent variable:			
Operationally-defined dependent variable (box D):		Second operationally-defined variable in correlation (box D):	
Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional	Do you wish to make a directional or non-directional prediction? <i>(Circle one in the box at right.)</i>	Directional Non-directional
Experimental Hypothesis:		Correlational Hypothesis:	