

Team Name \_\_\_\_\_

### Experiment Design Activity

Learning objective: Student teams will demonstrate the ability to design a simple experiment that appropriately tests the given hypothesis.

This activity will be our first end-of-module team activity. Your team will work together in class to design an experiment to test the hypothesis: *Physiological arousal increases happiness*. Your team product will be reported on an 11 X 17 sheet of paper I will provide. The team will report:

- Who will participate in the study, including the size of your sample and any specific characteristics important to the study
- Your independent variable and its operational definition
- Your dependent variable and its operational definition
- A description of exactly how you will manipulate the independent variable and how you will measure the dependent variable, including specific detail (e.g., sample items and response scale for surveys).

Teams will post their experiment descriptions at the beginning of class on 9/13/19 for an in-class review.

Participants – sample size & characteristics	Appropriate for the study & very specific: 5 pts		Somewhat appropriate &/or somewhat specific: 3 pts	Inappropriate or insufficiently specific: 1 pt	Missing: 0 pts	5
IV correctly identified	Yes: 3 pts		Nearly: 2 pts	No: 1 pt		3
Operational definition of IV	Specific, clever, & appropriate for the study: 5 pts	Specific & appropriate: 4 pts	Somewhat specific & appropriate: 3 pts	Insufficiently specific or not appropriate: 2 pts	Missing or very inappropriate for the study: 1 pt	5
DV correctly identified	Yes: 3 pts		Nearly: 2 pts	No: 1 pt		3
Operational definition of DV	Specific, clever, & appropriate for the study: 5 pts	Specific & appropriate: 4 pts	Somewhat specific, & appropriate: 3 pts	Insufficiently specific or not appropriate: 2 pts	Missing or very inappropriate for the study: 1 pt	5
Design	Study is a true experiment; the IV is manipulated and the DV is measured: 10 pts		Study is correlational: 5 pts	Study is neither an experiment or a correlation: 1 pt		10
Hypothesis testing	The study tests the specified hypothesis: 5 pts		The study tests something close to the specified hypothesis: 3 pts	The study does not test the specified hypothesis: 1 pt		5
Manipulation of IV	Clever & consistent with operational definition: 7 pts	Consistent with operational definition: 6 pts	Somewhat consistent with operational definition: 4 pts	Vaguely consistent with operational definition: 2 pts	Absent or inappropriate: 0 pts	7
Measurement of DV	Very specific & consistent with the operational definition: 7 pts	Somewhat specific & consistent with the operational definition: 6 pts	Somewhat consistent with the operational definition: 4 pts	Vaguely consistent with the operational definition: 2 pts	Absent or inappropriate: 0 pts	7

Team Name \_\_\_\_\_

Describe your participants:

What is your independent variable? \_\_\_\_\_

What is your operational definition of this independent variable?

Describe how you will manipulate this independent variable:

What is your dependent variable? \_\_\_\_\_

What is your operational definition of this dependent variable?

Describe how you will measure this dependent variable: