

## Experiment Design Activity

- ☐ Pick one of the following studies and answer the following questions based on the study design.

- ☐ Janzen, G., Haun, D. B., & Levinson, S. C. (2012). [Tracking down abstract linguistic meaning: Neural correlates of spatial frame of reference ambiguities in language](#). *PloS one*, 7(2), e30657.
- ☐ Cook, S. W., Mitchell, Z., & Goldin-Meadow, S. (2008). [Gesturing makes learning last](#). *Cognition*, 106(2), 1047-1058.
- ☐ Richardson, D., & Matlock, T. (2007). [The integration of figurative language and static depictions: An eye movement study of fictive motion](#). *Cognition*, 102(1), 129-138.
- ☐ Jostmann, N. B., Lakens, D., & Schubert, T. W. (2009). [Weight as an embodiment of importance](#). *Psychological science*, 20(9), 1169-1174.

1. What is the specific research question?
2. Who are the participants in the experiment?
3. How many participants did they run?
4. What are the experimental stimuli? Why do you think the authors designed them in this way?
5. What is the experimental procedure? Why do you think the authors designed it in this way?
6. What are the conditions?
7. What is the dependent variable? How is it operationalized?

- ☐ Design an experiment based on one of the following research questions:
  - ☐ Will invoking a metaphorical frame of smoking influence people's opinions on climate change?
  - ☐ How does the use of co-speech gestures influence people's comprehension of directions to a location?
  - ☐ Will the color of the walls of a room influence people's mood when they perform a task?
- 1. Who are the participants in your experiment?
- 2. How many participants will you run?
- 3. What are your experimental stimuli? Why did you design them in this way?
- 4. What is your experimental procedure? Why did you design it in this way?
- 5. What are your conditions?
- 6. What is your dependent variable? How is it operationalized?