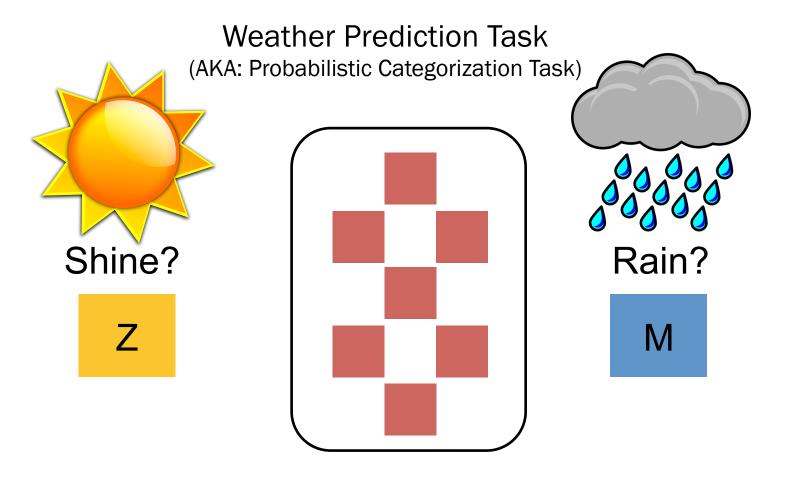
### Week 8: Memory

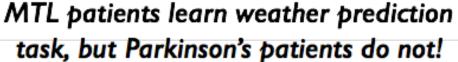
Psych 50 February 26, 2016

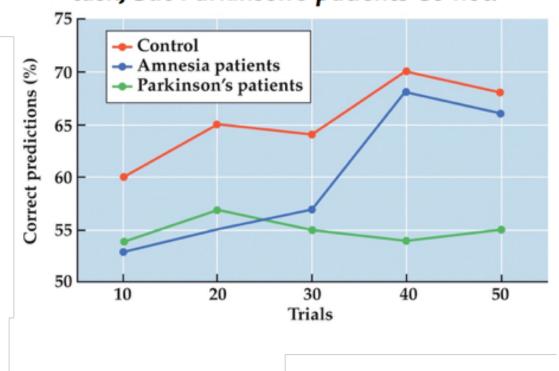
#### This week, you are the experimenter!



How many questions about cognitive neuroscience can we address with just one task?

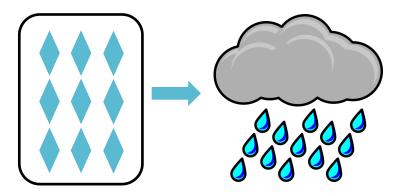
1. Does the weather prediction task require declarative memory or skill learning?





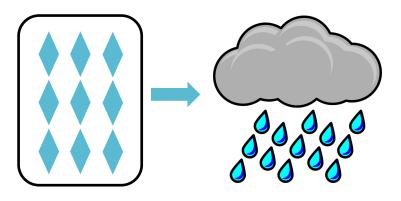
2. ...If you hypothesized that the weather prediction task requires skill learning, can you think of any changes you could make to the task so that it relies on declarative memory?

#### Weather Prediction Task Press button for *rain* or *shine*



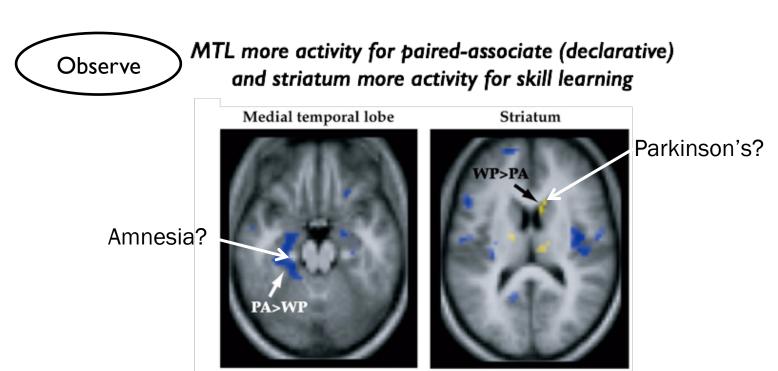
Feedback

"Paired Associates" Task
Press button for stimulus onset



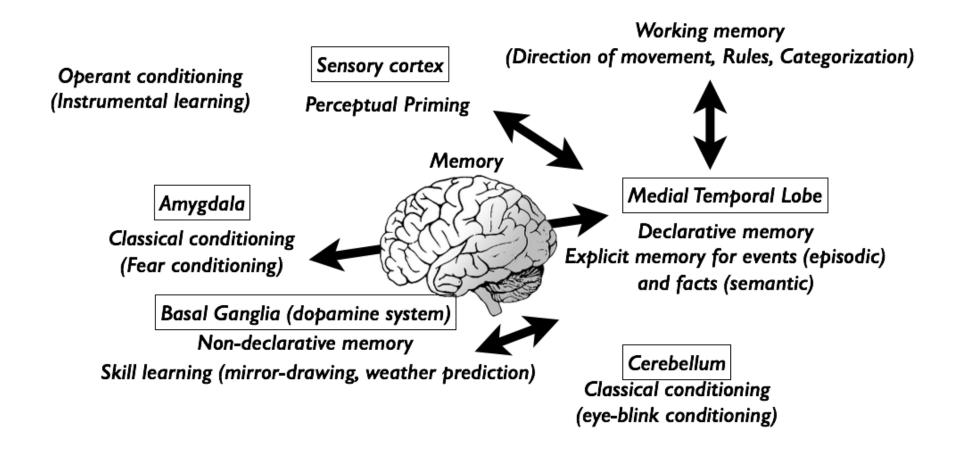
No feedback

3. What patient groups or naturally occurring lesions would you study to address whether (a) declarative memory or (b) skill learning is necessary for learning in the WPT?

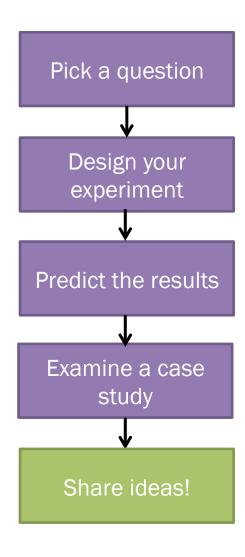


4. What can we conclude from a double dissociation?

Different memory functions can be anatomically and functionally disassociated!!



#### Today's activity

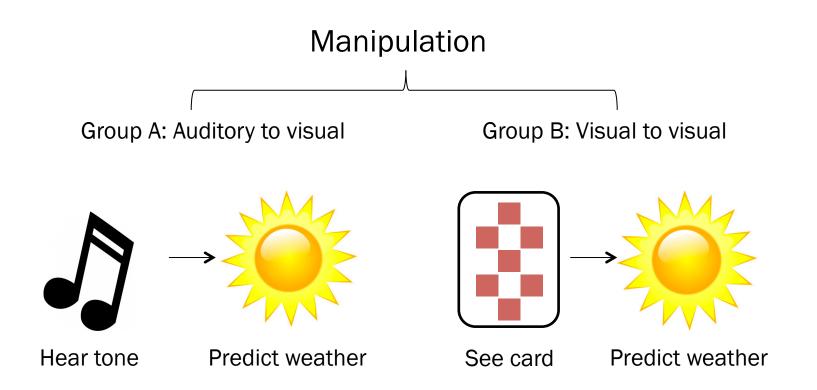


## Example: Is it possible to learn across sensory modalities?

For example, is it possible to learn to predict auditory outcomes (thunder) from visual cues (lightning)?

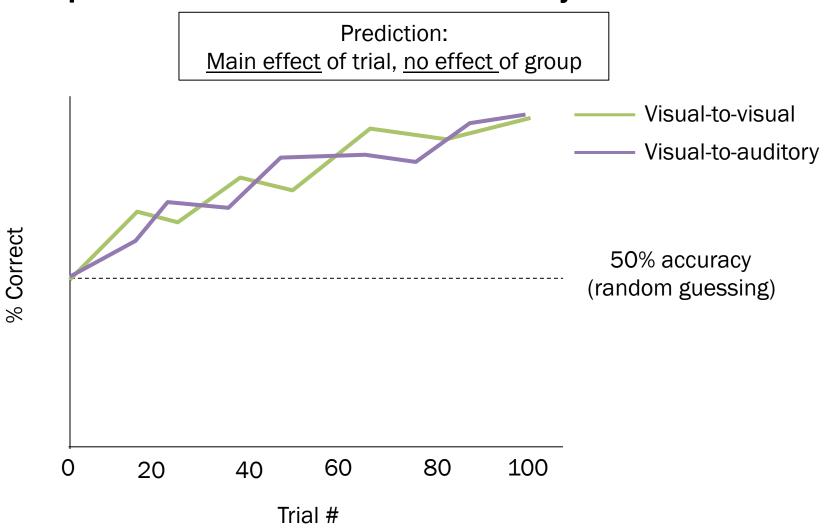


## Example: Is it possible to learn across sensory modalities?



What is your hypothesis?

# Example: Is it possible to learn across sensory modalities?



#### Today's activity

