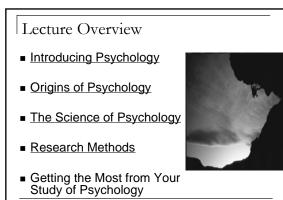
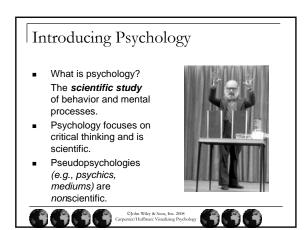


# Chapter 1: Introduction and Research Methods

Siri Carpenter, Yale University Karen Huffman, Palomar College

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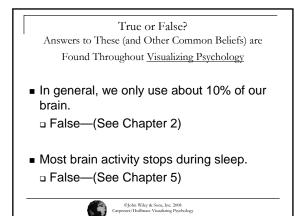


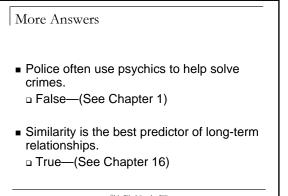


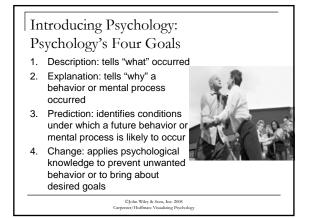


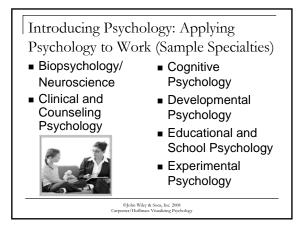
### Pause and Reflect: Why Study Psychology?

 Psychology helps us scientifically evaluate common beliefs and misconceptions about behavior and mental processes. For example, can you identify which of the beliefs on the following slide are true or false?





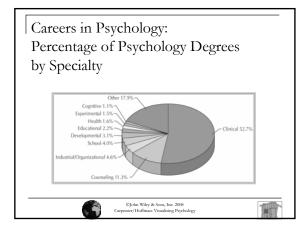




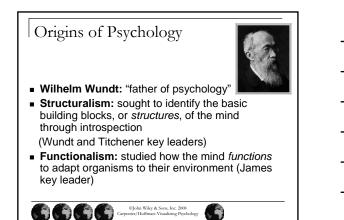
Applying Psychology to Work (Sample Specialties Continued)

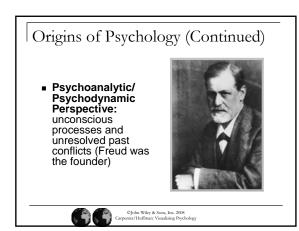
- Forensic Psychology
- Gender/Cultural Psychology
- Health Psychology
- Industrial/Organizational Psychology
- Social Psychology

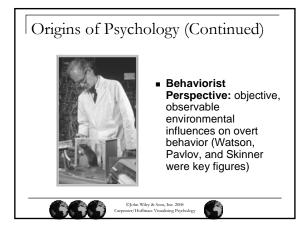




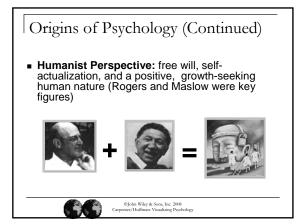


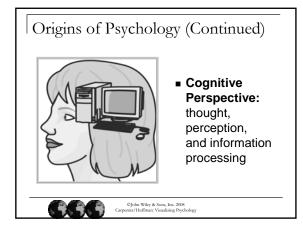


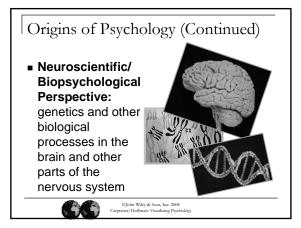




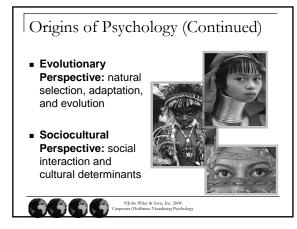








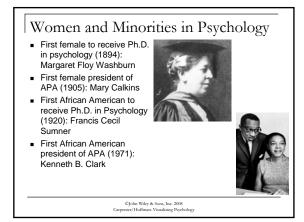


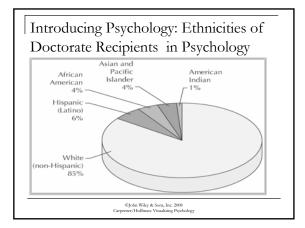


Origins of Psychology: One Unifying Theme of Modern Psychology

 Biopsychosocial model: combines all seven major perspectives





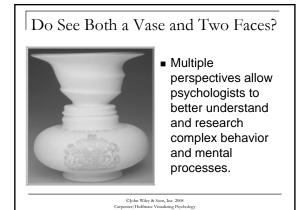


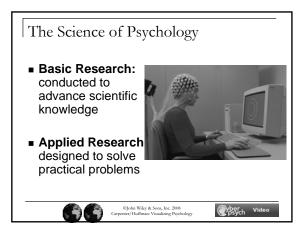


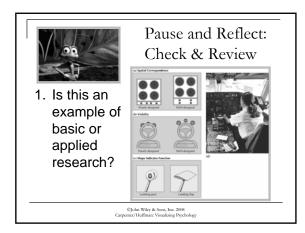


Pause and Reflect: Critical Thinking

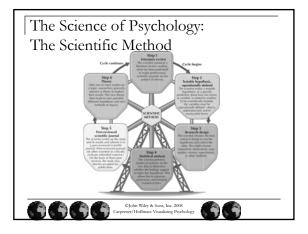
 Why do psychologists and other scientists need multiple perspectives? (One possible answer appears on the next slide.)



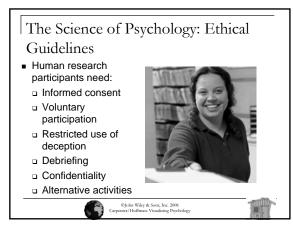












#### The Science of Psychology: Ethical Guidelines (Continued)

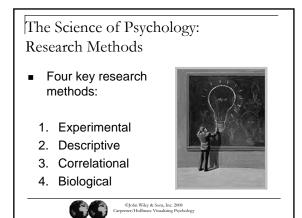
- Advocates believe nonhuman research offers significant scientific benefits.
   Opponents question these benefits and suggest nonhuman animals cannot give informed consent.
- Psychologists must maintain high standards for both human and nonhuman animal research.

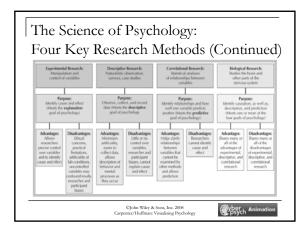
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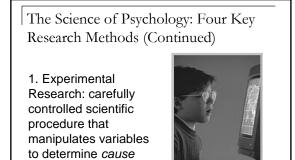


Pause and Reflect: Check & Review

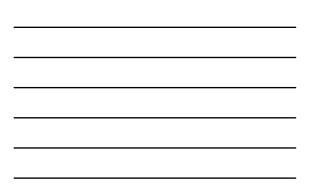
- 1. What are the four major goals of psychology?
- 2. The \_\_\_\_\_ perspective focuses on natural selection, adaptation, and evolution.



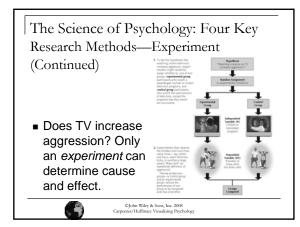


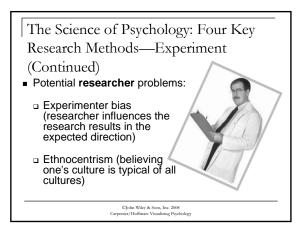






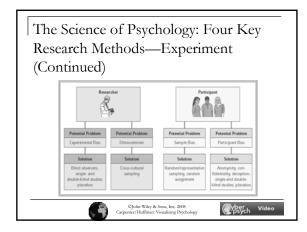
- The Science of Psychology: Four Key Research Methods—Experiment (Continued)
- Key features of an experiment:
  - Independent variable (factor that is manipulated) versus dependent variable (factor that is measured)
- Experimental group (receives treatment) versus control group (receives no treatment)







- The Science of Psychology: Four Key Research Methods—Experiment (Continued)
- Potential participant problems:
  - Sample bias (research participants are unrepresentative of the larger population)
  - Participant bias (research participants are influenced by the researcher or experimental conditions)

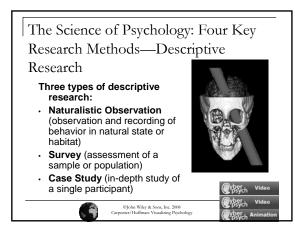




The Science of Psychology: Four Key Research Methods—Descriptive Research 2. Descriptive Research:

vesearch. observes and records behavior without producing causal explanations

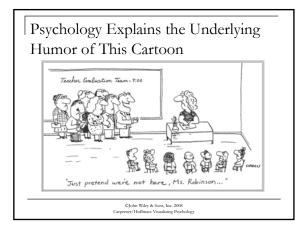
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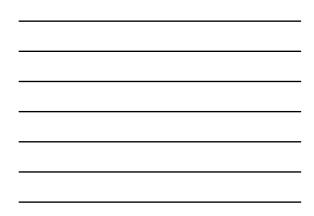




Pause and Reflect: Why Study Psychology?

 What is the advantage of studying psychological research methods like naturalistic observation? (One possible answer appears on the next slide.)





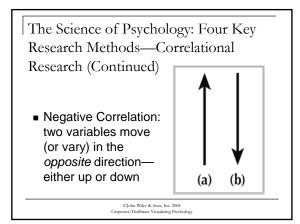
The Science of Psychology: Four Key Research Methods—Correlational Research
3. Correlational Research: scientific study in which the researcher observes or measures (without directly manipulating)

two or more variables to find relationships between them

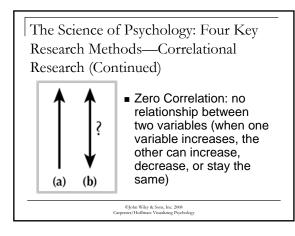
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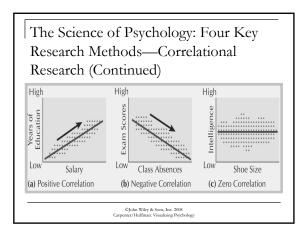
The Science of Psychology: Four Key Research Methods—Correlational Research (Continued)  $\overbrace{(a) (b) (a) (b)}^{\bullet} + Oostive Correlation:$ two variables move(or vary) in the samedirection—either upor down



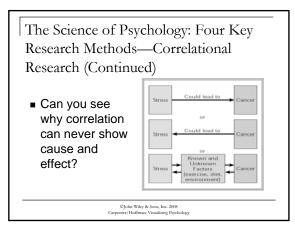




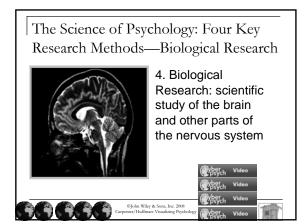




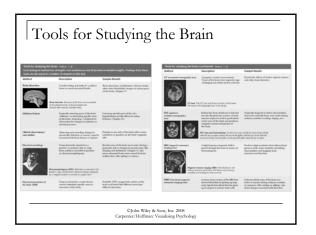










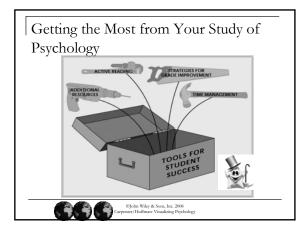


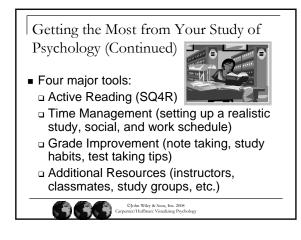




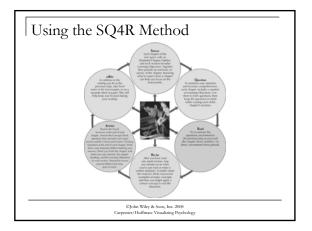
Pause and Reflect: Check & Review

- 1. Why is an experiment the only way we can determine cause and effect?
- 2. What is the difference between a positive correlation and a negative correlation?





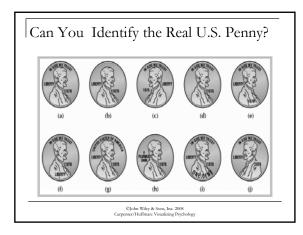






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8.00		History	Breakfast	History	Breakfast	History	Alter.
9:00		Psychology	Statistics	Psychology	Statistics	Psychology	A.
10:00		Review History & Psychology	Campus Job	Review History & Psychology	Statistics Lab	Review History & Psychology	
11:00		Biology		Biology		Biology	
12:00		Lunch Statt		Exercise	Lunch	Exercise	
1:00		Bio Lab	Lunch	Lunch	Study	Lunch	
2:00			Study	Study			









### Pause and Reflect: Critical Thinking

- Can you see how the lack of active reading or studying helps explain why most people cannot easily identify the actual U.S. penny despite having seen it thousands of times?
- Which of the four major "Tools for Student Success" do you plan to work on to improve your academic performance?

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#### End of Chapter 1: Introduction and Research Methods

Siri Carpenter, Yale University Karen Huffman, Palomar College