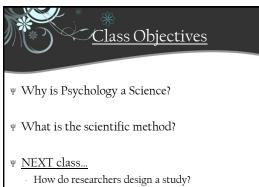
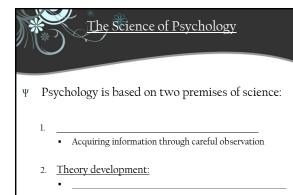
The Science of Psychology

<u>Chapter 1</u> Introduction and Research Methods



Why should I believe what researchers say?

When Psychologists perform research they begin by asking questions through critical thinking...



Psychology as a Science

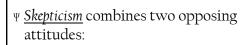
- Psychologists must engage in <u>careful observation</u> when studying behavior and mental processes
- Ψ What does that mean?
 - They must gather information _____
 - They must be able to ____

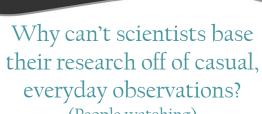
Systematic observation is setting up our study so that we eliminate or reduce bias.

Setting up rules a head of time to reduce inferences.

"We must keep our minds open but not so open that our brain falls out."

(Oberg, 1995)



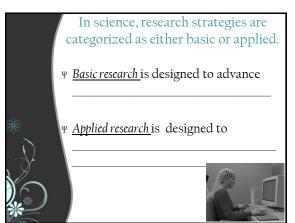


Unfortunately, casual observation is subject to _____

We notice behavior that fits our stereotypes

Why is Research Conducted?

- Ψ The purpose of scientific research is to
 - This knowledge is applied in all areas of society to provide solutions.



How Do Scientists Collect and Evaluate Evidence?

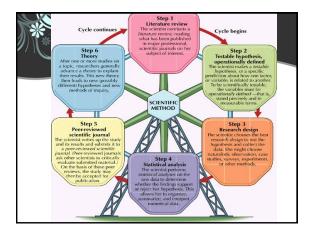


Psychologists follow strict, standardized scientific procedures so that others can

How is research conducted?

<u>
 The Scientific Method</u> allows psychologists to explore psychological issues ______

	The Scientific Method
1.	Formulate a research question by stating a question and performing a
2.	Develop a operationally defined and
3.	is selected to test the hypothesis
4.	<u>A statistical analysis</u> must be performed on the data to determine if the findings support or reject the hypothesis.
5.	The research is <i><u>published</u></i> in a peer-reviewed scientific journal.
6.	After one or more studies on a topic, researchers generally <i>advance a theory</i> to explain their results.



Scientific Method in Psychology

Ψ Before research begins, a problem must be identified



2. Develop a testable hypothesis, or a _____

What is your Hypothesis?

- What could help us understand why Jack and Jill fell down the hill?
- Ψ
- There is a correlation or a _____

The hypothesis must be testable, but also operationally defined

Meaning the variables are

by defining a numerical value.

Operational definitions allow Psychologist's to study intangible concepts by making them more

* Examples of Operational Definitions

- <u>
 <u>Aggressive behavior</u> the number of times a child punches a
 punching bag over the course of one hour
 </u>
- ¥ <u>Happiness</u> the number of times a person smiles while watching a Disney movie
- Ψ Intelligence a score on an IQ test
- Y <u>Anxiety</u> the number of pencils a student brings to an exam

Next... Research Methods