Research Methods in Psychology	
PSY 450W Dr. Schuetze	
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Psychology is a Science	
 Science of behavior and mental processes. Reliance on empiricism 	
Knowledge comes from observation and experience	
Goals of Science • Describe Behavior	
Predicting Behavior Explaining Behavior	
Controlling Behavior	

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- \bullet Research is formalized curiosity. It is poking and prying with a purpose.
 - Zora Neale Hurston
- Research is a systematic attempt to understand the world.

Scientist

- If you are a scientist, you believe that it is good to find out how the world works, that it is good to find out what the realities are... J. Robert Oppenheimer.
- Critical thinking: does not blindly accept arguments and conclusions.
 - Examines assumptions
 - Evaluates evidence

Introduction

- \bullet The moon is made of green cheese
- Santa Claus lives at the North Pole
- The mind is just like a computer
- 2+2=4
- Attitudes affect cancer
- We are being observed by extra terrestrials
- The best things in life are free
- All humans have an immortal soul

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Research	is a	a Way	of of	Thin	king
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- Researchers need to understand the limits of intuition and common sense.
 - Scientific attitude
 - Scientific method

Scientific Method

 Set of procedures used for gathering and interpreting objective information in a way that minimizes error and yields dependable generalizations.

Research Questions

- First step is to express topics of interest as research questions.
 - Is it bad to spank your children?
 - What is the effect of meditation on stress?
 - Do "smart drugs" really make people smarter?

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• Formally stated expectation about a behavior that defines purpose and predicted outcomes of a study.

Characteristics of a Scientific Hypothesis

- Testable
- Falsifiable
- Rational
- Prediction

Scientific Hypothesis

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Testing Your Knowledge	Testing	Your	Know	ledge
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Instructions: Construct a \underline{good} hypothesis for each of the following relationships.

- Exercise and Stress
- Prenatal Cigarette Smoking and Infant Health
- Use of Mnemonics and Memorization
- Social Support and Depression
- Age and Problem-solving Ability

Testing a Hypothesis

- Data do not support prediction disconfirm.
- \bullet Data do support prediction confirm.
- Importance of replication
 - -gain confidence in hypothesis.

Source of Research Questions

- Experience
- Theory

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Theory	lesting.	Main	(inal	\cap t	Research

- \bullet Theory: Low self-esteem feeds depression.
- Hypothesis: People with low self-esteem score higher on a test of depression.