

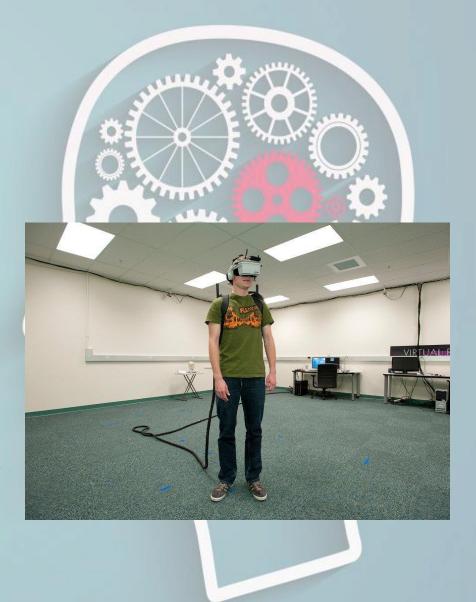
Purpose of Research in Psychology

- Psychology as a science uses observation to collect data to answer questions
- Psychological research used to further our knowledge of the world and then make predictions about future events and behaviors
- Uses different types of methods in order to collect, organize, and understand data
  - Basic Research
  - Applied Research
  - Program evaluation



## Basic Research

- Psychology basic research is done for the sake of increasing knowledge about a certain topic
  - Knowledge for knowledge's sake
- Not meant for immediate application
  - Basic research results in collections of data and observation notes
  - Basic research studies and used by others as base for application and to find solutions



## Basic Research Example

- International Center for Media and Public Agenda (ICMPA, 2010)
- Study aimed at finding out the effects of cell phone addiction on students at the University of Maryland
  - Students recorded observations of effects of one week without access to cell phone
    - Students commonly used word "addiction" to describe withdrawal symptoms



## Applied Research

- Applied Research in psychology is geared towards finding solutions to different problems or questions
- Working towards improving society and helping individual's mental health



Applied Research Example

- Ex. Changing the University of Maryland study on cell phone addiction to research effects of cell phone usage in order to try to increase social interaction among students
  - Example Possible incomes
    - Student services releases informational pamphlet about the results to educate students about the effects
    - University requires freshmen to attend hour long course on harmful effects of cell phones
    - University offers more social events to try to get students more socially engaged



## Program Evaluation

- In a program evaluation psychologists examine existing programs to determine effectiveness.
- Through Evaluation they can determine if the program's goals are being met, and if there might be better ways of achieving those goals.



Example Program Evaluation

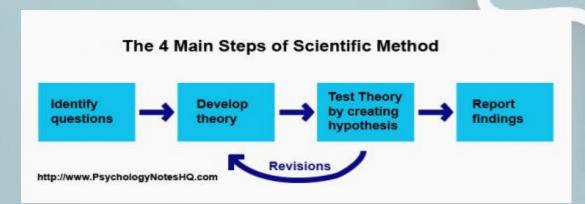
 Ex. After years of having the cell phone policy in place the University of Maryland conducts a Program Evaluation to find out the effectiveness of the program

- Example Possible incomes
  - They find the program is working fine and only make minor adjustments
  - The program is not effective at all so they decide to do a new study to form the base of a new program
  - They find problems and readjust the program to address the problems and be more effective



The Use of the Scientific Method

- As a science psychology relies on an established system to find results
  - Allows for consistency in how results are gained and recorded
- Tests must be testable and falsifiable
  - Can actually test and find facts to support your research
  - Must also have the possibility to be proven false.
    Your test either provides results supporting your theory or it fails to.



The Scientific Method Explained

- All research is based around a Hypothesis
  - What a scientist theorizes will happen
- Research methods must be carefully designed to collect data
  - Controls are used to eliminate factors that might disrupt data
- Once the experiment is done analyze the collected data to determine scientific and mathematical significance
- Report findings so that other psychologists can review work. If experiment did not produce expected results either re-design experiment or report why.

