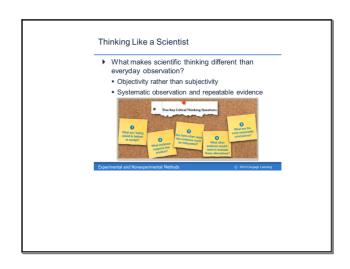
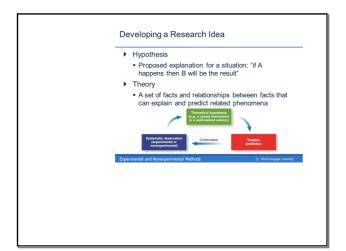
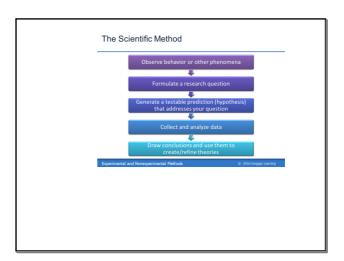
Research







Observable behavior child with ADHD has a problem sitting for long periods of time

Formulate a research?

what strategy(s) could a teacher implement that could reduce student distraction

#### Formulate hypothesis

have various seating options including a ball and standing desk

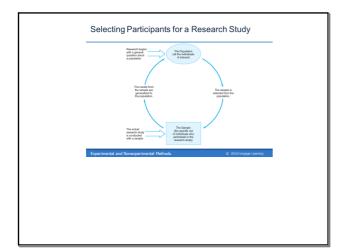
test/collect/analyze data

give the student alternative seating have a person record amount of "off task" behavior

# Draw conclusions/refine yes/no to change in behavior

#### Research

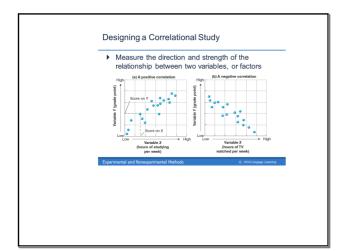
samples- small group to study must represent wide variety of population.



#### Biased sample

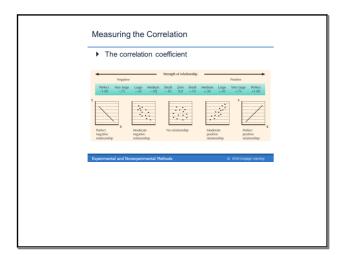
sample doesn't represent entire population avoiding biased sample random sampling Stratified samples sample size Types of research

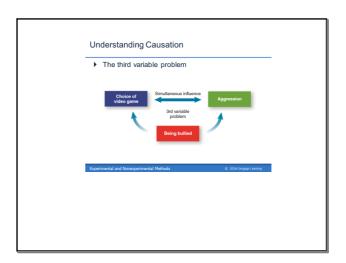
Correlation



Positive correlation - high value for one variable corresponds to high value of another

Negative correlation - high value for one variable corresponds to Low value of another

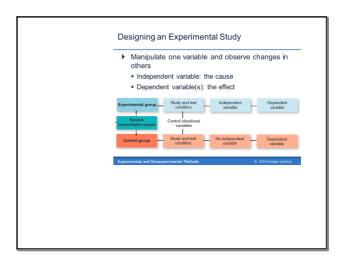


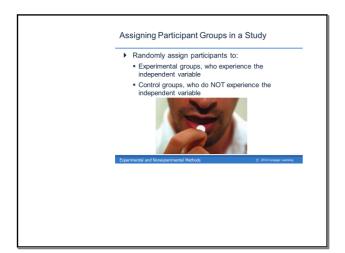


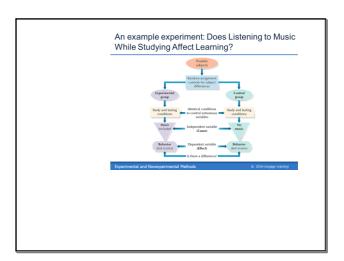
#### Experiment

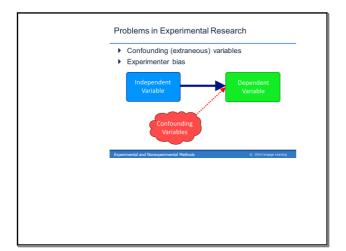
Independent variable (IV) - variable the experimenter deliberately controls

Dependant variable (DV) - variable being measured







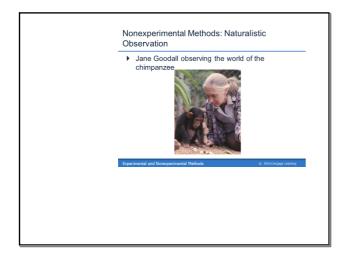


# Naturalistic Observation

observing human/animals in natural setting

ad. - accurate behavior

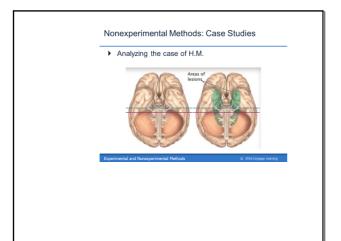
dis - hard to be in natural setting



#### Case study

intense study of an individual or small group over a period of time

- ad. looks at individual problems
- dis. sample size too small



# Survey

practical way to gather data on beliefs, attitudes, actions of a large group

ad - eliminates research bias

dis - subjects could lie



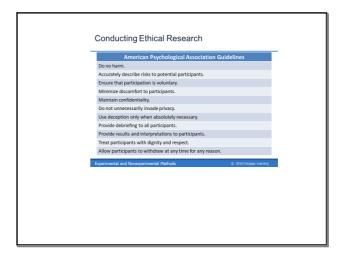
# Longitudinal Study

Study the same group of subjects over a long period of time

- ad. consistent/inconsistent behavior
- dis time consuming/subject could leave

#### Cross-cultural study

comparison of people's beliefs, values, behaviors from different cultures



# Ethically Questionable Research: The Tuskegee Syphilis Experiments

 Prisoners, soldiers, and mental patients were deliberately exposed to syphilis and gonorrhea to test the effectiveness of penicillin



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#### Conducting Animal Research

- ▶ Can be controversial
- APA guidelines for what kind of research is permissible



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