

# Study Guide - Exam 1

JP

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methods of acquiring knowledge

- premise statements
- arguments

scientific method

inductive reasoning

research questions

hypotheses

variables

deductive reasoning

replication

know what science is

pseudoscience

research process

quantitative and qualitative research

IV and DV

operational definitions

participants

research designs

steps of research

identifying topic areas

basic and applied research

efficacy and effectiveness

theories and frameworks

primary and secondary sources

purpose of literature review

subject words

online databases

abstracts

tips of finding research

hypothesis formation

null hypothesis

theories

constructs

operational definitions

validity and reliability

- types of both

types of relationships

scales of measurement

treatment of differing scales

measurement modalities

sensitivity in measurement

range effect

artifacts

experimenter bias

demand characteristics

reactivity

different participant roles

research ethics

nuremberg code

national research act

belmont report

- principles

APA guidelines and ethics codes

informed consent and consent forms

deception

confederates

debriefing

placebo

RCTs

confidential and anonymous studies

IRB

fraud and safeguards of fraud  
experimental research strategy  
components of experiments  
extraneous variables  
third variables and confounding variables  
directionality  
randomization  
random process  
random assignment  
internal and external validity  
control methods in experiments  
manipulation checks  
no treatment control conditions  
placebo control conditions  
simulations  
types of realism  
field studies  
evidence based programs  
steps from basic research to implemented in the real world  
between-subjects design  
pros and cons of between-subjects designs  
individual differences  
equivalent groups  
restricted random assignment  
matching  
range of variability  
variance  
variance within groups  
attrition  
threats to internal validity  
communication between groups  
diffusion  
compensatory equalization  
compensatory rivalry  
resentful demoralization