## Cheatography

Psychology - experimental methods Cheat Sheet by Taalithaa (Taalithaa) via cheatography.com/183017/cs/40272/

experimental methods - terms	
aim	what the researcher intends to find out
hypothesis	what the researcher predicts will be the outcome of the experiment
procedure	steps in order to carry out research
findings	the principle outcomes of a research project - what the project has suggested revealed or indicated
conclusion	what the findings tell us about people in general rather Han about specific participants - conclusions are used to construct theories
demand character- istics	a cue in the environment that makes the participant aware of the aim of the study
internal validity	when the researcher is able to measure what they intended to measure
reliability	when the study can be carried out again and collect the same results
mundane realism	when the tasks in the study are reflective of real life tasks

strengths and weaknesses of experimental designs

strengths

weaknesses

hypotheses	
hypothesis	An accurate and testable statement predicting the outcomes of the research project
There are two type	es of hypotheses
1. Null hypothesis	2. Alternative hypothesis
a null hypothesis is used to predict that there will be no difference or relationship in the results	an alternative hypothesis is used to predict a difference or relationship in the results
There are two type esis	es of alternative hypoth-
1. Directional hypothesis (one tailed)	2. Non directional hypothesis (two tailed)
a directional hypothesis states which direction the results are predicted to go. Eg. there will be an increase in	a directional hypothesis states that there will be a difference but not which direction the results are predicted to go. Eg. there will be a difference between
extraneous variabl	e
extraneous an e	xtraneous eq age of

extraneous	an extraneous	eg. age of
variable	variable is a	pts,
	variable that	temper-
	can affect the	ature, or
	results if not	resear-
	controlled.	chers body
		language
there are thre variable	ee different types of	extraneous

1. Partic-	2. Situational	3. Experi-
ipant	variables	menter
variables		variables

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extraneous variable (cont)			
participant	situational	experimenter	
variables are	variables	variables are	
differences	are differ-	differences	
in the partic-	ences in	in the experi-	
ipants	the	menters	
between	situation	body	
conditions	between	language or	
that can	conditions	tone of voice	
affect the	that can	between	
results. Eg.	affect the	conditions	
age, experi-	results. Eg.	that can	
ence,	temper-	affect the	
ethnicity	ature, noise	results.	
	level, time		
	day		
these extraneo	us variables ca	n be	
controlled in dif	ferent ways		
participant	situational	experimenter	
variables	variables	variables	
can be	may be	can be	
completely	controlled	overcome by	
removed by	by using	writing down	
using a	standa-	any instru-	
repeated	rdised	ctions for the	
measures	procedures	participants	
design.	where as	so the they	
matched	many of the	dont have to	
pairs design	variables in	interact with	
may help to	the	the experi-	
control	conditions	menter.	
participant	remain the		
variables	same		

experiments	
experiment	an experiment is a research method used to find an cause and effect relationship between the independent variable and the dependant variable
there four ty	pes of experimental methods
1. laboratory experiment	a laboratory experiment is used to investigate the causal relationship between the independent and dependant variable in controlled conditions

## experiments (cont) a field experiment is used to field

2.

field experiment	investigate the causal relati- onship between the indepe- ndent and dependant variable in more natural conditions
3. natural experiment	a natural experiment is used to investigate the relationship between the independent and dependant variable when the independent variable cannot be manipulated because it is something the participant has experienced
4. quasi experiment	a quasi experiment is used to investigate the relationship between the independent and dependant variable when the independent variable cannot be manipulated because it is a characteristic of the partic- ipant

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