Research Methods

Designing Psychological Investigations



Teacher's Workbook Checklist		
Date		
There are no gaps in workbook; all activities/ boxes are complete		
All AO3 points are well explained and written in full sentences (50-100 words for each point)		

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Do you want to study the behaviour of groups or individuals?		What sort of links – relational or causal	
Groups?	Individuals? CASE STUDY	Relational? CORRELATIONAL ANALYSIS	Causal? EXPERIMENT
from in	nple or more detailed data dividuals?	responses or by w	nformation by asking for watching behaviour?
Detail? INTERVIEW	Large scale? SURVEY	Observing? OBSERVATION	

Selecting Research Methods

Experimental Design					
	The way in which Ps are used in experiments				
Experimental	Outline	Evaluation			
<u>design</u>					
Independent					
group design					
Repeated					
Measures					
design					
Matched					
pairs design					

Sampling Method used to select Ps from target population All samples must be representative of the target population to be considered valid- high population validity Outline Evaluation Sampling technique Random The most representative type of sampling and therefore has sampling the greatest population validity. Systematic sample Stratified sample Opportunity sample Volunteer sample

Correlational Analysis

- Relationship between two co-variables
- Measures strength and direction of an association between two co-variables
- The strength of this correlation is expressed by the correlation coefficient.
 - The correlation coefficient is always between +1 and -1.
 - +1 represents a perfect positive correlation
 - -1 represents a perfect negative correlation.
 - A correlation coefficient of 0 means that there is no correlation between the two variables
- Correlations are plotted on a scattergram

Positive correlation	Sketch a positive correlation
. Solute correlation	
Negative correlation	Sketch a negative correlation
Negative correlation	Sketch a negative correlation
Negative correlation	Sketch a negative correlation
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Case study/ studies				
Detailed study of a single individual , institution or event, c				
Strengths	Limitations			
 Provides a rich source of meaningful data. Some this detailed data can challenge established theories. Eg/ Case study of KF challenged the idea that short-term memory was a single unitary store. His short-term memory was damaged but it was selective; he found it hard to recall verbal material but could recall visual stimuli (Shallice and Warrington, 1970). 	 Difficult to generalise the results – they have low population validity. Difficult to replicate case studies so it is hard to examine the reliability of the findings. 			

Ethical Issues

- All psychological research must conform to the highest ethical standards.
- Many ethical issues can be avoided by using a good information sheet and consent form. This allows participants to give informed consent.
- Information sheets should also inform participants about their right to withdraw at any point and of their right to confidentiality.
- Research with children requires consent from parents or guardians.
- Deception should be avoided whenever possible. When it is used researchers should seek prior general consent or retrospective informed consent.
- Participants should be debriefed after a study.
- Researchers should protect participants from physical or psychological harm throughout the study

Informed Consent	Description	How to overcome
Deception		
Right to withdraw		
withdraw		
Protection from harm		
Privacy and		
Confidentiality		

	Analysing and Interpreting Qualitative Data:				
Content analysis					
	Strengths	Limitations			
Thematic analysis					
	Strengths	Limitations			

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	Reliability and Validity (Read the printed/ scanned copy of Yr 2TB)			
Reliability	Consistency/	Same similarity		
		Internal reliability	External reliability External reliability is the ability to produce the same results every time the test is carried out.	
	measures su measures, fo	bility is usually associated with ch as attitude scales or psychometric r example personality tests. It is rith the consistency within a test.		
	Assessing reliability		Improving reliability	
	Split half method	This compares one half of the test with the other to check whether the scores of a variable (eg/extroversion) are consistent.	Qualitative methods	
	Inter- observer reliability		Questionnaires	
			Observations	
	Test-retest		Experiments	

Validity	Accuracy			
	The extent to which what you are measuring is accurate			
	Internal validity The controlling of ALL variables, except the one being deliberately manipulated by the researcher.		External Validity Concerned with how well the results of a study can be generalised beyond the study itself.	
		sentially, does the DV measure what we want it to and, an experiment; are we measuring the effects of the IV the DV?		
			Population validity	
			Mundane realism	The degree to which the setting or procedure reflects that in real life.
			Experimental realism	The degree to which the results reflects realistic behaviour
	Assessing		Improving	
	Face validity		Questionnaires	
			Interviews	
	Concurrent validity		Experiments	S
			Observations	
Temporal validity				