

### Knowledge Organiser: GCSE Psychology; RESEARCH METHODS





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QUESTIONNAIRES	7	TYPES OF EXPERIMENT		
QUESTIONNAIRES	/	LAB EXPERIMENTS	٦	
Pre-set list of written questions		IV is manipulated in controlled setting		
CLOSED AND OPEN QUESTIONS		FIELD EXPERIMENTS		
		IV is manipulated in a natural setting		
Can distribute to many people. Easy to		IV has been manipulated naturally, effect on DV is		
analyse Social desirability bias Acquiesc	ъ	recorded		
hias		EVALUTION		
CLOSED AND OPEN OUESTIONS		LAB EXPERIMENTS		
Produces guantitative or gualitative data,		Highly internal validity (control). Low external validity		
affected ease of analysis		(low realism). Cause and effect. Replication. Demand		
		1 characteristics		
EXPERIMENTAL DESIGN		FIELD EXPERIMENTS		
Ways of using participants in experim	nental	Lower internal validity. Higher external validity		
research	_	(realism). Ethical issues		
	9	NATURAL EXPERIMENTS		
		Low internal validity (no random allocation). High		
INDEPENDENT GROUPS DESIGN		external validity. Opportunities may be rate.		
experimental are different		 		
REPEATED MEASURES DESIGN		OBSERVATION TECHNIQUES		
All participants take part in all conditions		Watching or listening	4.0	
MATCHED PAIRS DESIGN	,		10	
Similar participants put in pairs and allocated		NATURALISTIC OBSERVATION		
to different experimental conditions		Behaviour observed where it would normally occur.		
to unclent experimental conditions		No control over variables		
EVALUATION		CONTROLLED OBSERVATION		
INDEPENDENT GROUPS DESIGN		Some control environment, including manipulation		
Less economical, no order effects and		of variables to observe effects		
participants variables not controlled		CONVERT AND OVERT OBSERVATION		
REPEATED MEASURES DESIGN		Observations without or with their knowledge		
Order effects, demand characteristics, ne	0	PARTICIPANT AND NON-PARTICIPANT		
participants variables problem, more		To join the group or remain an outsider		
economical		BEHAVIOURAL CATEGORIES		
MATCHED PAIRS DESIGN		larget behaviours broken down into observable		
No order effects , cannot match participa	ants	components		
exactly. Time-consuming				
		ΕναιματίοΝ		
CASE STUDIES		NATURALISTIC OBSERVATION		
An in-depth investigation of an individua	эі, 	Low internal validity (control is difficult). High		
group or event.	4.4	external validity (especially when covert)		
A QUALITATIVE IVIETHOD		CONTROLLED OBSERVATION		
experiences	L	Low internal validity- though some extraneous		
experiences.		variables may be controlled		
LUNGII UDINAL		High external validity –especially when covert		
Carried out over a long period of time.		COVERT AND OVERT OBSERVATION		
<b>ΓΛΑΓΠΑΤΙΟΝ</b>		Covert: low participant reactivity but ethically		
STRENGTHS		questionable		
Best way of studying rare behaviours		Overt: behaviour may be affected		
		PARTICIPANT AND NON-PARTICIPANT		
WEAKNESSES		Participant: Increased external validity but may	'go	
Often can't be generalised.		native'		
		Non-participant: more objectivity but less insigh	it	



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DATA ANALYSIS: KINDS OF DATA		DATA ANALYSIS' DESCRIPTIVE		
	-	STATISTICS	13	
QUALITATIVE AND QUANTITATIVE DATA		Summarising quantitative data	15	
QUALITATIVE DATA: Written, non numeric	cal oling			
or opinions		MEASURES OF CENTRAL TENDENCY		
QUANTITATIVE DATA: Expressed numerically		MEAN		
rather than in words		Add them all up and divide number		
EVALUATION	12	MEDIAN		
QUALITATIVE DATA: Rich in detail.	12	The middle value		
Greater external validity.		MODE		
Difficult to analyse		Most frequently occurring		
less biased and narrow in scope		<b>EVALUATION</b>		
		MEAN		
PRIMARY AND SECONDARY DATA		Most sensitive and representative. Easily		
PRIMARY DATA: Collected first hand from		distorted.		
participants for the purpose of the		MEDIAN		
investigation		Not affected by extreme values.		
SECONDARY DATA: collected and analysed by someone other than the researcher		Less sensitive than the mean		
		MODE		
PRIMARY DATA:		Easy to calculate		
High validity		Crude, unrepresentative		
targets relevant information				
time and effort		<u>COMPUTATION</u>		
SECONDARY DATA:		DECIMALS	15	
Variation in the quality		Any number written with a decimal Position		
Outdated and incomplete		represents value.		
· · · · · · · · · · · · · · · · · · ·		FRACTIONS		
DISPLAY OF QUANTITATIVE DATA		Reduce to simplest form.		
	14	RATIOS		
SCATTER DIAGRAMS		A way to express fractions.		
To display correlation.	<b>n</b> v	Fractions out of 100		
axis A dot is placed where co-variables meet		FINDING THE ARITMETIC MEAN		
axis. A dot is placed where co-variables meet.		Add all the scores and divide by number of scores.		
FREQUENCY TABLES		STANDARD FORM		
Frequency means the number of times it		A mathematical shorthand to represent very large or		
occurs.		small numbers.		
Frequency tables are a systematic way to				
organise data in rows and columns.		Histogram of Multimodal 16		
FREQUENCY DIAGRAMS				
Histogram – continuous categories, no space				
between bars.				
Bar chart – bars can be in any order. Normal distribution – symmetrical spread		25 8.4 12 86 17 74 83 Multimode Blue Green Vellow	Pink	
forms a bell shape.				
		3		

10 15 20 Rank of Adjective for Science



# How do we use Knowledge Organisers in Psychology

### How can you use knowledge organisers at home to help us?

- **Retrieval Practice**: Read over a section of the knowledge organiser, cover it up and then write down everything you can remember. Repeat until you remember everything.
- **Flash Cards**: Using the Knowledge Organisers to help on one side of a piece of paper write a question, on the other side write an answer. Ask someone to test you by asking a question and seeing if you know the answer.
- **Mind Maps:** Turn the information from the knowledge organiser into a mind map. Then reread the mind map and on a piece of paper half the size try and recreate the key phrases of the mind map from memory.
- **Sketch it:** Draw an image to represent each fact; this can be done in isolation or as part of the mind map/flash card.
- **Teach it:** Teach someone the information on your knowledge organiser, let them ask you questions and see if you know the answers.

### How will we use knowledge organisers in Psychology?

- **Test:** We will do regular low stakes tests to check your ability to retrieve information from memory.
- **Mark our answers**: Once you have done a low stake test you can mark your work using the knowledge organiser.
- **Improve our work:** Once you have finished a piece of work you may be asked to check your knowledge organiser to see if there is any information on it that you could add into an answer.

<u>ASSESSMENT</u>	<u>SECTION ON KNOWLEDGE</u> ORGANISER	<u>DATE</u>	<u>SCORE</u>
Learning Check point 1			/10
Learning Check point 2			/10
MID UNIT			/20
Learning Check point 3			/10
Learning Check point 4			/10
END OF UNIT			/40