

Psychology Chapters 1-4 Cheat Sheet by bellaelho via cheatography.com/194340/cs/40522/

Chapter 1

What is Psychology?

Scientific study of the mind, brain, and behaviours

3 Levels of Analysis

Biological, Psychological, Social cultural influences

What do the 3 levels do?

Provides views and information of 'psychological phenomenon'

Biological = ?

Molecule, brain structures

Psychological = ?

thoughts, feelings

Social culture influences = ?

relating to others, personal relationships

Must focus on all 3, lack of understanding

5 Major Challenges in Psychology

multiply determined, psychological influences, individual differences, reciprocal determinism, cultural differences

Multiply Determined = ?

Caused by many factors

Psychological influences

rarely independent of one another

Individual differences

2 people, same issue, give different responses and expressions

Reciprocal determinism

ones actions can influence those around them (Albert Bandura)

Cultural differences

limit generalizations, different cultures = express emotions differently

What is Science?

An approach: observation, testing/examination, and decision to accept/discard

Science never tries to prove any ideas

Chapter 1 (cont)

What is a Scientific Theory?

Accounts existing data, generates testable predictions

It is not just a simple guess

Hypothesis

Specific prediction in relation to solving their study

Chapter 1

2 Things a Good Scientist Does?

Engage in bias-free practice, attempts to avoid/prevent

bias

Confirmations Bias

Ability to recollect information when it boosts what we already have

Belief Perseverance

Metaphysical claims

Believing what you already believe even if evidence proves wrong

Scientists recognize when they're wrong

Scientists never claim to prove their theories

Scientific claims They can be tested

Can't be physically tested using

self-help books)

methods or science

Pseudoscience An imposter of science (astrology,

they CAN be tested but they never are. (relying on it can be dangerous)

Why is it important to distinguish scientific claims from pseudoscience claims? Provides with misinformation, convinced when there is lack of evidence

Chapter 1 (cont)

What are Over reliance on anecdotes, the three Meaningless psychobabble, Warning Talk of proof instead of Signs? evidence

When a warning sign is shown - not good quality evidence/fake science

Over Reliance on Anecdotes	Not considered scientific evidence, based off one person, hard to verify	
Meanin- gless Psycho- babble	Uses scientific-sounding words that don't mean anything	
Talk of proof instead of evidence	Science provides evidence that supports or contradicts ideas (using words like prove, proven)	
Emotional Reasoning Fallacy	allowing emotions to cloud judgments (which is wrong)	
Bandwagon Fallacy	believe something is true because others think it is true	
Not me Fallacy	thinking you're immune from what others struggle with	
Bias Blind Spot	unaware of own biases but highly aware of others	
Patternicity	tendency to see meaningful patterns in random stimuli	

It gives comfort by having a sense of conntrol over

uncontrollable and unpredictable



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If two findings are

equally as good, pick the simpler

one

Chapter 1 (cont)		Chapter 1		
3 Dangers of Pseudo- science	Opportunity cost, Direct harm, and Inability to think scientifically as citizens	Scientific claims are falsifiab What factors may explain why a study's	Finding's could be wrong, samples	
Opportunity Cost	using alternate methods instead of the most helpfu- l/useful one	findings are not replicated by others who attempt to regulate it?	are not represent- ative of one another	
	someone doing pseudosci- entific activities and get hurt	More participants = better results		
An inability to think scient- ifically as citizens	physically/psychologically affect broader decisions about society	Extraordinary Claims	Is the evidence strong enough to support? They require supportive evidence	
Scientific thinking = ?	aware of all biases that could happen - protects against error	Parsimony (Occam's Razor)	Starting with an explanation and then creating a complicated one	
Skepticism =	evaluating all claims with an open mind - needs persuasive evidence beforehand something that is not	The 6 Scientific Thinking Principles:		
? Variable = ?		1) Ruling out alternative explanations	Having alternative explanations for findings	
constant or cannot vary A correlation between two variables does not mean that there is a relationship between them Correlation is not causation Third when a correlation between		Correlation vs. Causation	Error of assuming that because one thing is related to another, it must cause the other	
Variable Problem	2 variables can be explained by a third	3) Falsifiability	Capable of being disproven	
		4) Replicability	A study's findings are able to be duplicated	
		5) Extraordinary Claims	The more unlikely a claim is, the better the evidence	



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6) Parsimony

(Occam's Razor)

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