2 The specification overview

2a.

Overview of A Level in Psychology (H569)

Learners must complete all components (01, 02 and 03) to be awarded the OCR A Level in Psychology.

Content Overview	Assessment Ove	rview
Planning, conducting, analysing and reporting psychological research across a range of experimental and non-experimental methodologies and techniques.	Research methods (01) 80 marks written paper 2 hours	33.3% of total A level
Introduces some of the central areas, perspectives, issues and debates through research in psychology.	Core studies in psychology (02)* 80 marks written paper 2 hours	33.3% of total A level
Compulsory sections on: • Mental health • Criminal psychology. Learners will also study one out of the following applied options: • Child psychology • Environmental psychology • Sport and exercise psychology.	Applied psychology (03)* 80 marks written paper 2 hours	33.3% of total A level

* Indicates synoptic assessment



2b.

Content of A Level in Psychology (H569)

Research methods (Component 01)

Learners will need to be familiar with the **four** main techniques for collecting/analysing data.

These are:

- self-report
- experiment
- observation
- correlation.

Learners will be expected to carry out their own practical investigations and reflect on their experiences using these four methods.

Core studies in psychology (Component 02)

Learners will need to be familiar with the fifteen core studies.

In addition, learners need to be familiar with the case study method but are not required to conduct one as part of their own practical investigations.

Learners will also need to be familiar with the following:

- planning and conducting research
- data recording, analysis and presentation
- report writing
- science in psychology.

Learners will also need to be familiar with the following:

- areas and perspectives in psychology
- methodological issues relating to the core studies
- issues and debates in psychology.

Applied psychology (Component 03)

Learners will need to be familiar with **two** compulsory sections:

- Mental health
- Criminal psychology.

Learners will also study **one** out of the following applied psychology options:

- Child psychology
- Environmental psychology
- Sport and exercise psychology.

Learners will need to be familiar with the issues and debates that relate to this component.

Content of Research methods (Component 01)

This component introduces and develops knowledge and understanding of the process of planning, conducting, analysing and reporting psychological research using a range of experimental and non-experimental methodologies and techniques.

It promotes an understanding of the methods of scientific enquiry used in empirical research and the relevant knowledge and skills required to conduct such research. It also encourages the acquisition of a range of evaluative concepts for reviewing and discussing the design and outcomes of research.

There is a strong focus on the requirement for learners to plan, conduct and analyse their own practical investigations using the four core research methods and techniques (experiment, observation, self-report and correlation).

Where possible and appropriate, links should be made with the content of the other components (e.g. in the application of evaluative issues).

The multiple-choice section of the examination may require candidates to utilise their knowledge of the core studies from Component 02.

It should also be noted that the content of Component 01, apart from the mathematical content, can also be assessed in Components 02 and 03.

1.1 Research methods and techniques	Learners should have knowledge and understanding of the following research methods and techniques and their associated strengths and weaknesses:	
Experiment	laboratory experiment	
	field experiment	
X	quasi experiment.	
Observation	• structured	
	unstructured	
	naturalistic	
	• controlled	
	• participant	
	non-participant	
	• overt	
	• covert.	
Self-report	questionnaire	
	Interviews:	
	 structured, semi-structured, unstructured. 	

Research methods and techniques

Correlation	obtaining data for correlational analysis
	positive correlation
	negative correlation
	no correlation.
Case study*	when and why a case study method would be used

* Students are required to know about the features of a case study but are not required to conduct one as part of their own practical investigations.

Planning and conducting research

1.2 Planning and conducting research	Learners should be familiar with the following features of planning and conducting research and their associated strengths and weaknesses:
Aims and hypotheses and how to formulate	 research aim research question alternative hypotheses null hypotheses one-tailed (directional) hypotheses two-tailed (non-directional) hypotheses.
Populations, samples and sampling techniques	 target population and sample random sampling snowball sampling opportunity sampling self-selected sampling.
Experimental designs	 repeated measures design independent measures design matched participants design.
Variables and how they are operationalised	 independent variable (IV) dependent variable (DV) control of extraneous variables (researcher, situational and participant)
Designing observations	 behavioural categories time sampling event sampling.
Designing self-reports	 open questions closed questions rating scales: Numerical scale, Likert rating scale, Semantic differential rating scale.

Data recording, analysis and presentation

1.3 Data recording, analysis and presentation	Learners should be able to demonstrate knowledge and understanding of the process and procedures involved in the collection, analysis and presentation of data. This will necessitate the ability to perform some calculations (please see Appendix 5 for examples of mathematical requirements).
Raw data	 design of raw data recording tables use of raw data recording tables standard and decimal form significant figures make estimations from data collected.
Levels of data	 nominal level data ordinal level data interval level data.
Types of data	 quantitative data qualitative data primary data secondary data.
Descriptive statistics	 measures of central tendency mode, median, mean. measures of dispersion range, variance, standard deviation. ratio percentages fractions frequency tables (tally chart).

Cranhe*	
Graphs*	line graphs
	pie charts
	bar charts
	histograms
	scatter diagram.
Inferential statistics	normal distribution curves
	skewed distribution curves
	• probability
	significance levels
	criteria for using a parametric test
	 criteria for using a specific non-parametric inferential test (Mann-Whitney U test, Wilcoxon Signed Ranks test, Chi-square, Binomial Sign test and Spearman's Rho)
	 using statistical tables of critical values for all five named non-parametric inferential tests
	 write a significance statement including the calculated value, the critical value and significance level
	calculate Chi-square
	type 1 errors
	type 2 errors
	• symbols: =, <, <<, >>, >, \propto , \sim , \geq , \leq .
Methodological issues	representativeness
	• generalisability
	• reliability:
	 internal, external, inter-rater, test-retest, split-half.
	validity:
	 internal, face, construct, concurrent, predictive, external, population, ecological.
	demand characteristics
	social desirability
	researcher/observer bias
	researcher/observer effect(s)
	 ethical issues, including the British Psychological Society's Code of Ethics and Conduct:
	 Respect – informed consent, right to withdraw, confidentiality Competence Responsibility – protection of participant, debrief Integrity – deception.

*Students will not be asked to draw graphs/charts with a high degree of precision. For example, when sketching a pie chart, segments would only need to be roughly proportionate to calculated percentages.

Report Writing

1.4 Report writing	Learners should have knowledge of the conventions of reporting research in a practical report and demonstrate understanding of the role, content and purpose of each of the main sections and sub-sections.
Sections and sub-sections of a practical report	 abstract introduction method (design, sample, materials/apparatus, procedure) results discussion references appendices.
Citing academic references	• a familiarity with citing academic research using the Harvard system of referencing, e.g. Milgram, S. (1963) Behavioral study of obedience. <i>Journal of Abnormal and Social Psychology</i> , 67, (4), 371–378.
Peer review	appreciate the role of the psychological community in validating new knowledge and ensuring integrity through the process of peer review.

Practical Investigations

1.5 Practical investigations	Learners are expected to conduct and analyse their own research practical investigations, including appropriate risk assessment and management (please see appendix 5).
	Learners should have undertaken the following practical investigations and be prepared to be assessed on them individually: experiment observation self-report correlation.

1.6 Science in psychology	Learners should understand how society makes decisions about scientific issues and should be aware of the nature and principles of scientific enquiry through knowledge and understanding of the following concepts:
	the study of cause-and-effect
	• falsification
	• replicability
	objectivity
	hypothesis testing
	manipulation of variables
	control and standardisation
	quantifiable measurements.

Core studies in psychology (Component 02)

Core studies in psychology (Component 02) aims to develop the critical thinking and independent learning skills essential to the scientific study of psychology. The selected core studies reflect the contribution of psychology to an understanding of individual, social and cultural diversity.

This component develops learners' ability to make evaluative points about the studies and their ability to see the studies in the context of psychological areas, perspectives, issues and debates.

Section A: Core studies

Section A: Core studies

This section will assess the learners' knowledge and understanding of the core studies, as well as their ability to evaluate the studies. The core studies are placed within a broad area of investigation. Within each area, the learners are required to examine three core studies. Holistically, the studies have been selected to represent a variety of research methodologies, designs, samples, sampling methods, issues and debates. Learners will need to refer to topics from Component 01 when analysing and evaluating core studies. Students should also be able to comment on the contribution of core studies to an understanding of individual, social and cultural diversity. For full references please see appendix 5.

Study	Торіс
Milgram (1963)	Obedience to authority
Piliavin et al. (1969)	Helping behaviour
Levine (2001)	Cross-cultural altruism
Loftus and Palmer (1974)	Eyewitness testimony
Grant et al. (1998)	Context-dependent memory
Simons and Chabris (1999)	Visual inattention
Bandura et al. (1961)	Transmission of aggression
Chaney et al. (2004)	Adherence to medical regimes
Lee et al. (1997)	Lying and truth telling
	Milgram (1963) Piliavin et al. (1969) Levine (2001) Loftus and Palmer (1974) Grant et al. (1998) Simons and Chabris (1999) Bandura et al. (1961) Chaney et al. (2004)

cont. Section A: Core studies		
Area	Study	Торіс
	Sperry (1968)	Lateralisation of function in the brain
Biological	Casey et al. (2011)	Delayed gratification
	Maguire et al. (2000)	Brain plasticity
	Freud (1909)	Phobias
Individual differences	Baron-Cohen et al. (1997)	Autism and theory of mind
	Van Leeuwen et al. (2008)	Intelligence

Section A: Core Studies	Content
Individual studies	'Tell the story' of each core study in terms of:
	• aim
	• method
	o design
	 sample materials/apparatus
	 procedure
	findings/results
	• conclusions
	 how the study relates to the topic.
	how the study could be improved.
Core studies in their area	Similarities between studies
	Differences between studies
	To what extent do studies contribute to our understanding of:
	 individual diversity
	 social diversity
	 cultural diversity
	Usefulness of studies
Methodological issues	 The strengths and weaknesses of the different research methods and techniques
	The strengths and weaknesses of different types of data
	Ethical issues
	Validity
	Reliability
	Sampling bias
	Ethnocentrism.

Section B: Areas, perspectives, issues and debates

Section B: Areas, perspectives, issues and

debates

In this section, learners will be asked questions that invite them to generate an extended discussion, recognising the inter-relationship between different areas, perspectives, issues and debates in psychology.

The specification places core studies within particular areas, but learners may refer to other appropriate studies from Component 03 where a question indicates this is permissible. They may also argue that a core study placed within one area can be seen as falling within another area.

Core studies that come from a behaviourist perspective include Bandura and Chaney. Psychodynamic ideas are referred to in the research by Freud. However, similar to the above, learners may refer to other appropriate studies from Component 03 where a question indicates this is permissible.

	Areas, perspectives, issues and debates	Content		
Are	eas	• The defining principles and concepts of each area.		
•	Social	Research to illustrate each area.		
•	Cognitive	 Strengths and weaknesses of each area. 		
•	Developmental	Applications of each area.		
•	Biological	How each area is different from and similar to other		
•	Individual Differences	areas/perspectives.		
Per	rspectives	The defining principles and concepts of each perspective.		
•	Behaviourist	Research to illustrate each perspective.		
•	Psychodynamic	 Strengths and weaknesses of each perspective. 		
		Applications of each perspective.		
		 How each perspective is different from and similar to the other perspective/areas. 		
De	bates	The defining principles and concepts of each debate.		
•	Nature/nurture	Different positions within each debate.		
•	Freewill/determinism	• Research to illustrate different positions within each debate.		
•	Reductionism/holism	Strengths and weaknesses of the different positions within each		
•	Individual/situational explanations	debate.		
•	Psychology as a science			
Issi	ues	The defining principles and concepts of each issue.		
•	Ethical issues	Research to illustrate the different issues.		
•	Conducting socially sensitive research	Strengths and weaknesses related to the different issues.		
•	Usefulness of research			

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Section C: Practical applications

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To encourage awareness of practical applications of psychology, this section will require learners to apply their knowledge and understanding of psychology to a novel source. The source could be a newspaper or magazine article, a blog, a diary entry, email exchange or equivalent written source. It is advised that teachers prepare learners for this section by giving them a variety of sources to consider.

Practical applications	Content
The practical applications of psychology	 Identify and apply the psychological content in the source. Make evidence-based suggestions in relation to the source. Consider the strengths and weaknesses of the suggestion(s) made.

Content of applied psychology (Component 03)

This component consists of **two** compulsory sections:

Mental health

2c.

• Criminal psychology.

Learners will also choose to study **one** out of the following applied psychology options:

- Child psychology
- Environmental psychology
- Sport and exercise psychology.

Each topic contains the following:

Background

With reference to psychology, learners should be able to explain and exemplify the background and consider relevant issues and debates in relation to the topic area.

Key studies

Learners should understand each key study and how it relates to the topic.

Application

Learners will be presented with a novel situation. They should be able to apply their psychological knowledge to explain strategies to change behaviour or explain how they would conduct an appropriate investigation into the topic area.

Learners must be able to:

- Describe concepts, theories and studies as specified below.
- Discuss and apply methodological issues and debates in psychology to the background and key studies.
- Explain and exemplify the background in each topic.
- Apply the background and key studies to novel situations.
- Evaluate the contribution the key studies have made to the topic.
- Suggest possible improvements to key studies.
- Explain how psychology contributes to an understanding of individual, social and cultural diversity.
- Explain how research into mental health and criminal psychology contribute to the success of the economy and society.

The issues and debates that learners are required to apply in Component 03 are detailed below.

Issues and debates

Learners must be able to apply each of the following issues and debates to each topic and relevant research.

Debates	Issues		
Nature/nurture	Ethical issues		
Freewill/determinism	Conducting socially sensitive research		
Reductionism/holism	Usefulness of research		
Individual/situational explanations	Validity		
Psychology as a science	Reliability		
	Sampling bias		

Tonia	Section A: Men		Application
Торіс	Background	Key research	Application
What is mental health?	 Three historical views of mental illness: humoural, supernatural and hospital movement. Four definitions of abnormality: deviation from social norms, failure to 	Neighbors et al. (2003) Racial differences in DSM diagnosis using a semi- structured instrument: the importance of clinical judgment in the diagnosis of African Americans.	Using definitions of abnormality to assess mental illness. Using the ICD and DSM to diagnose
	 function adequately, statistical infrequency, and deviation from ideal mental health. Categorising mental disorders using the ICD and DSM, including cultural biases in diagnosis. 		depression, phobias and schizophrenia.
The medical model	 Medical explanations of general mental illness: Biochemical explanation. Genetic explanation. Brain abnormality. 	Mental disorders in	The use of drug treatment for one specific disorder (depression, phobias or schizophrenia).
Alternatives to the medical model	 Non-medical explanations of general mental illness: Behaviourist explanation. Cognitive explanation. Psychodynamic explanation. 	Watson and Raynor (1920) Conditioned emotional reactions.	The use of CBT as a treatment for depression or schizophrenia. The use of systematic desensitisation as a treatment for phobias.
Modern approaches to mental health	 The roles of psychologists and psychiatrists in diagnosing and treating mental illness. The role of technology in supporting mental health. The promotion of mental wellbeing. 	Fulmer et al. (2018) Using psychological artificial intelligence (Tess) to relieve symptoms of depression and anxiety: randomized controlled trial.	The use of artificial intelligence (AI) technology to support mental wellbeing.

	 Background One biological explanation of criminal behaviour. One social explanation of criminal behaviour. One cognitive explanation of 	Key research Raine et al. (1997) Brain abnormalities in murderers indicated by positron emission tomography.	Application The use of zero- tolerance policing to prevent crime.
running to crime	of criminal behaviour.One social explanation of criminal behaviour.One cognitive	Brain abnormalities in murderers indicated by positron emission	tolerance policing to
	explanation of criminal behaviour.		The use of anger management to prevent violent crime.
	 Emotional context in the processing of forensic evidence. Cognitive biases in the processing of forensic evidence. Biases involved when working for the prosecution or defence in the processing of forensic evidence. 	Hall and Player (2008) Will the introduction of an emotional context affect fingerprint analysis and decision-making?	How ACE-V can be used to reduce bias in the processing of forensic evidence.
	 How juries can be persuaded by: Characteristics of witnesses and defendants (attractiveness, confidence and ethnicity) Inadmissible evidence Pre-trial publicity. 	attributions of guilt.	The use of expert witnesses to reduce external influences on jury decision-making. How the order of testimony in the courtroom can influence jury decision-making.
Managing offenders		Zimbardo (1973) A study of prisoners and guards in a simulated prison.	The use of restorative justice to reduce reoffending.

Section C: Option 1 Child Psychology			
Торіс	Background	Key research	Application
Pre-adult brain	How brain	Barkley-Levenson and	Two strategies to
development	development impacts	Galván (2014)	reduce risk-taking
	risk-taking behaviour.	Neural representation of expected value in the	behaviours.
		adolescent brain.	Understanding how
			research in this topic
			can be undertaken.
Perceptual	Perceptual	Gibson and Walk (1960)	Two strategies to
development	development in	The 'Visual Cliff'.	develop perception in
	children and animals.		young children.
			Understanding how
			research in this topic
			can be undertaken.
The development of	The development of	Ainsworth and Bell	Two strategies to
attachment	attachment in babies.	(1970)	develop an
		Attachment, exploration	attachment friendly
		and separation:	environment.
		Illustrated by the	
		behaviour of one-year-	Understanding of
		olds in a strange	how research in this
		situation.	topic can be
			undertaken.

Section C: Option 2 Environmental Psychology			
Торіс	Background	Key research	Application
Biological rhythms	How disruption to	Czeisler et al. (1982)	Two strategies for
	biological rhythms	Rotating shift work	reducing the effects
	affects behaviour.	schedules that disrupt	of shift work.
		sleep are improved by	
		applying circadian	Understanding of
		principles.	how research in this
			topic can be
			undertaken.
Recycling and other	The factors which	Lord (1994)	Two strategies to
conservation behaviours	influence the	Motivating recycling	increase recycling.
	tendency to conserve	behaviour: A quasi-	
	or recycle.	experimental	Understanding of
		investigation of	how research in this
		message and source	topic can be
		strategies.	undertaken.
Psychological effects of	The impact of the	Ulrich (1984)	Two examples of
the built environment	built environment	View through a window	environmental design
	and urban renewal on	may influence recovery	used to improve
	our wellbeing.	from surgery.	health and wellbeing.
			Understanding of
			how research in this
			topic can be
			undertaken.

Section B: Option 3 Sport and exercise psychology			
Торіс	Background	Key research	Application
Exercise and mental health	Benefits of exercise to mental health.	Lewis et al. (2014) Mood changes following social dance sessions in people with Parkinson's Disease.	Two exercise strategies to improve mental health. Understanding of how research in this topic can be undertaken.
Motivation	How self-efficacy and sports confidence (including imagery and sports orientation) affects motivation.	Munroe-Chandler et al. (2008) Playing with confidence: The relationship between imagery use and self- confidence and self- efficacy in youth soccer players.	Two strategies for motivating athletes. Understanding of how research in this topic can be undertaken.
Audience effects	How an audience can facilitate or inhibit sports performance.	Wunderlich et al. (2021) How does spectator presence affect football?	Two strategies for increasing performance in spectator sports. Understanding of how research in this topic can be undertaken.

For full references please see Appendix 5.