

Psychology Knowledge Organiser – Biopsychology

Core knowledge

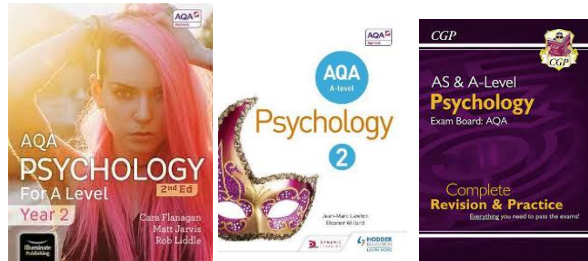
- The divisions of the nervous system: central and peripheral (somatic and autonomic).
- The structure and function of sensory, relay and motor neurons. The process of synaptic transmission, including reference to neurotransmitters, excitation and inhibition.
- The function of the endocrine system: glands and hormones.
- The fight or flight response including the role of adrenaline.
- Localisation of function in the brain and hemispheric lateralisation: motor, somatosensory, visual, auditory and language centres; Broca's and Wernicke's areas, split brain research. Plasticity and functional recovery of the brain after trauma.
- Ways of studying the brain: scanning techniques, including functional magnetic resonance imaging (fMRI); electroencephalogram (EEGs) and event-related potentials (ERPs); post-mortem examinations.
- Biological rhythms: circadian, infradian and ultradian and the difference between these rhythms. The effect of endogenous pacemakers and exogenous zeitgebers on the sleep/wake cycle.

Key words

ACTH
 Action potential
 Adrenal glands
 Adrenaline
 Autonomic nervous system
 Axon
 Axon terminal
 Behaviourism
 Central nervous system
 Chromosome
 Cognitive neuroscience
 Computer models
 Concordance rate
 Dendrites
 DZ twins
 Empirical
 Endocrine system
 Evolution
 Excitation
 Fight or flight response
 Genotype
 Hormones
 Hypothalamus
 Imitation
 Inference
 Information processing model
 Inhibition
 Internal mental processes
 Introspection
 Learning

Mediating cognitive factors
 Modelling
 Motor neuron
 Myelin sheath
 MZ twins
 Natural selection
 Negative reinforcement
 Nervous system
 Neuron
 Neurotransmitter
 Objective
 Operant conditioning
 Parasympathetic nervous system
 Peripheral nervous system
 Phenotype
 Pituitary gland
 Positive reinforcement
 Postsynaptic Receptor sites
 Punishment
 Reciprocal determinism
 Relay neuron
 Response
 Sensory neuron
 Somatic nervous system
 Structuralism
 Subjective
 Sympathetic nervous system
 Synapse
 Synaptic transmission
 Theoretical models
 Twin study

Wider reading



<https://www.simplypsychology.org/a-level-biological.html>

<https://studyrrocket.co.uk/revision/a-level-psychology-aqa/issues-options-in-psychology/biopsychology>

<https://www.physicsandmathstutor.com/psychology-revision/a-level-aqa/biopsychology/>

Exam Skill

Analyse	Separate information into components and identify their characteristics.
Calculate	Work out the value of something
Choose	Select from a range of alternatives.
Comment	Present an informed opinion.
Compare	Identify similarities and/or differences.
Complete	Finish a task by adding to given information.
Consider	Review and respond to given information.
Describe	Give an account of.
Design	Set out how something will be done.
Discuss	Present key points about different ideas or strengths and weaknesses of an idea.
Distinguish	Explain ways in which two things differ. Provide detail of characteristic that enable a person to know the difference between ...
Draw	Produce a diagram.
Evaluate	Judge from available evidence.
Explain	Set out purposes or reasons.
Explain how	Give a detailed account of a process or way of doing something.
Explain why	Give a detailed account of reasons in relation to a particular situation.
Identify	Name or otherwise characterise.
Give	Produce an answer from recall or from given information.
Justify	Provide reasons, reasoned argument to support, possibly provide evidence.
Label	Provide appropriate names on a diagram.
Name	Identify using a recognised technical term.
Outline	Set out main characteristics.
Select	Choose or pick out from alternatives.
State	Express in clear terms.
Suggest	Present a possible case/solution.
Which is	Select from alternatives.
What is meant by	Give a definition.
Write	Provide information in verbatim form.

