

DP unit planner 1

Teacher(s)	Jon Sprunger	Subject group and course	Group 3 IB	Psychology SL	
Course part and topic	Biological Approach	SL or HL/Year 1 or 2	SL 1	Dates	March 2023
Unit description	on and texts	DP assessment(s) for unit			
Unit - Biopsychology Approach		Sample SAQ Questions, Sample Extended Essay Questions			
Text – Psychology Course Companion 2 nd Edition					
Popov, Parker, Seath, Oxford University Press 2017					

INQUIRY: establishing the purpose of the unit

Transfer goals

List here one to three big, overarching, long-term goals for this unit. Transfer goals are the major goals that ask students to "transfer" or apply, their knowledge, skills, and concepts at the end of the unit under new/different circumstances, and on their own without scaffolding from the teacher.

Causes for all human behaviour can be explained through the influences of both nature and nurture. The Biological Approach to human behaviour arguably counts for 50% or our behaviour, but is only 1 of 3 approaches. The biological influence will need to be carried over into the following units. Examples are as follows:

Cognitive Approach 1) Memory – hippocampus, amygdala, medial temporal lobe, acetylcholine, traumatic brain injuries

2) Emotion – flashbulb memory, amygdala, Joseph LeDoux's fast pathway to memory, anterior cingulated cortex (ACC)

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Abnormal Psychology 1) Genetic connection to mental illness (depression, anxiety, schizophrenia, addictions...) 2) Neurotransmitters and mental illness (depression, anxiety, schizophrenia)

ACTION: teaching and learning through inquiry

Content/skills/concepts—essential understandings	Learning process <i>Check the boxes for any pedagogical approaches used during</i> <i>the unit. Aim for a variety of approaches to help facilitate</i> <i>learning.</i>
Students will know the following content: (Knowledgeable)Evolutionary PsychologyBiology and EthicsBiology of the NeuronNeural CommunicationNeural ChemistryLocalization of FunctionTechnology & ResearchBrain PlasticityHormonesPheromones	Learning experiences and strategies/planning for self-supporting learning: Lecture Socratic seminar Small group/pair work PowerPoint lecture/notes Individual presentations Group presentations Student lecture/leading Student lecture/learning Details: Other/s:
Genetics and Behaviour	

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 <u>Students will develop the following skills: (Communicators, Thinkers)</u> Can explain how principles that define the biological approach to psych may be demonstrated in research (that is, theories and/or studies) and are able to support various theories in human behaviour. Can discuss how and why particular research methods are used at the biological approach to psych (for example, experiments, observations, correlational studies and case studies). Can discuss ethical considerations related to research studies and genetic research at the biological approach to human behaviour. 	Formative assessment: Question and answer group sessions Question and answer individual sessions Homeworks – responses/feedback given, but no grade assigned
 <u>Students will grasp the following concepts: (Knowledgeable)</u> Outline principles that define the biological approach to psych (such as, patterns of behaviour can be inherited; animal research may inform our understanding of human behaviour; cognitions, emotions and behaviours are products of the anatomy and physiology of our nervous and endocrine systems) Explain one study related to localization of function in the brain (for example, Wernicke, Broca, Gazzaniga and Sperry, Lashley, Maguire). 	Summative assessment: Unit Tests SAQ and Extended Essay Prompts that are graded Graded Reading Assignments
 Explain the concept of neuroplasticity and support the explanation with the use of studies (for example, Draganski, Maguire) Outline the functioning of healthy neuro communication, including identifying the functions of various parts of the neural cell itself and the electrical and chemical functions. Using one or more examples, explain effects of neurotransmission on human behaviour (for example, the effect of noradrenaline and serotonin on depression, dopamine on schizophrenia, the concept of love, and its role in Parkinson's). Using one or more examples, explain functions of two hormones in human behaviour (for example, oxytocin, melatonin, estragon, androgen, and testosterone). 	Differentiation: Affirm identity—build self-esteem Value prior knowledge Scaffold learning Extend learning Details:



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e unit. For more information on ATL, please see <u>the quide</u> .



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Language and learning Check the boxes for any explicit language and learning connections made during the unit. For more information on the IB's approach to language and learning, please see <u>the guide</u> .	TOK connections <i>Check the boxes for any explicit TOK</i> <i>connections made during the unit</i>	CAS connections Check the boxes for any explicit CAS connections. If you check any of the boxes, provide a brief note in the "details" section explaining how students engaged in CAS for this unit.
Activating background knowledge	Core theme	Creativity
Scaffolding for new learning	Optional themes	Activity
Acquisition of new learning through practice	Areas of knowledge	Service
Demonstrating proficiency	Details:	Details:
Details:	Article written by John Pollock entitled "Brain in a Vat." In regards to this lesson, we discuss what it means to be alive. The question at hand is how do we define and identify the human condition of an individual's unique perspective of their sense of reality/consciousness? Do we know that the reality we identify with is true? What does it mean to be alive? Is it possible that our existence is simply a series of electrical stimulations to specific neural cells. Another area within biological approach to psychology that is largely connected to the TOK curriculum is the ethical ramifications to studying human behaviour.	



Resources

List and attach (if applicable) any resources used in this unit

Psychology Course Companion, 2nd Edition, A. Popov, L. Parker, D. Seath. Oxford University Press, 2017

The Anthropologist on Mars, Oliver Sacks, Knopf Doubleday Publishing, 2012

The Man Who Mistook his Wife for a Hat, Oliver Sacks, Knopf Doubleday Publishing, 2021

The Brain in a Vat. Contemporary Theories of Knowledge, John Pollock, Savage, MD: Rowman & Littlefield, 1986

Stage 3: Reflection—considering the planning, process and impact of the inquiry

What worked well	What didn't work well	Notes/changes/suggestions:
<i>List the portions of the unit (content, assessment, planning) that were successful</i>	List the portions of the unit (content, assessment, planning) that were not as successful as hoped	List any notes, suggestions, or considerations for the future teaching of this unit
Of the 3 subjects in the core of psychology, I believe this unit is my strongest. Based on student responses, they really enjoyed the Oliver Sacks readings and a number of the video clips shown that	I still am not over all satisfied with the Pheromones unit, though they really enjoyed the "stinking t-shirt" study, Claus Wedekind.	I could combine the pheromone and the hormone units and create an individual presentation or small group presentation. That would allow me to include two additional pedagogical approaches learning process.



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show the dysfunctions of the brain caused by various	
traumas.	