

GCSE Psychology Course Information

Course Overview

- **Exam Board** – AQA
- **Usual Age Range** – 14 to 16
- **Qualification** – One GCSE
- **Curriculum Time** – Three 50-minute lessons per week in class plus work in Independent Learning Time
- **Assessment** – Two 1-hour-45-minute examinations taken at the end of the two-year course
- **Grading** – Reformed Linear GCSE Scale of 9, 8, 7, 6, 5, 4, 3, 2, 1.
- **Full specification** - <https://filestore.aqa.org.uk/resources/psychology/specifications/AQA-8182-SP-2017.PDF>

Curriculum Intent

The **intent** of GCSE Psychology is to furnish UTC students with the fundamentals of psychology, developing critical analysis, independent thinking and research skills. The course has two overarching themes of Cognition and behaviour (Paper 1) and Social context and behaviour (Paper 2). These are further divided into four units each focusing on:

- Memory
- Perception
- Development
- Research Methods
- Social Influence
- Language, thought, and communication
- The brain and neuropsychology
- Psychological problems

The GCSE Psychology course explicitly teaches students critical thinking skills through analysis and evaluation of scientific research. Additionally, students are exposed to a range of theories that seek to explain human behaviour. This knowledge and skills directly link to the world of work with a specific focus on medical and health care careers. Students at the UTC get to explore the discipline of Psychology in the real-world through exciting inhouse project days, meeting with qualified Psychologists in a range of fields to discuss careers in Forensic Psychology, Educational Psychology, and clinical research and more. Psychology has extensive cross-curricular scope that compliments and fortifies learning in Biology, Chemistry, and Maths. At the UTC we motivate all students to pursue further study in psychology beyond GCSE and the suggested **destinations** after completion of this course include progression onto A-level Psychology, A-level Biology, and Medical Science.

Throughout GCSE Psychology students are encouraged to develop their **literacy skills**. Students are regularly exposed to reading material in class and extended writing activities such as development of lab reports, long form exam question practice, and regular Purple Zone formative assessments. Extended response questions allow students to use specialist terminology effectively, and develop clear, coherent, and logically constructed arguments interrogating scientific research and theory. This **love of reading** is further encouraged by both nonfiction and fiction psychology related titles that have been carefully selected by their Psychology teachers that are available to borrow from our Learning Resource Centre.

GCSE Psychology develops and strengthens **numeracy** skills that are learnt in GCSE subjects across our UTC. These include:

- Qualitative and quantitative methods of gathering data
- Primary and secondary data
- Correlations
- Descriptive statistics
- Interpretation and display of quantitative data in the form of frequency tables and diagrams, bar charts, histograms and scatter diagrams for correlation
- Normal distributions

For example, in GCSE Psychology UTC students would be expected to draw conclusions from data based . Whilst in GCSE Chemistry students may draw and analyse a straight-line graph of total volume of sodium hydroxide added against mean maximum temperature in the temperature changes practical. Students in GCSE Physics may also draw and analyse a straight-line graph but of the temperature against work done in the specific heat capacity practical. Higher Tier students will also be taught how to complete multi-step calculations. Our students are well prepared in biological numeracy as 10% of the marks in GCSE Biology examinations now requires such a skill.

The students at our UTC experience more than the ten required practical activities that the examination board requires. All students benefit from a combination of a hands-on approach and written work. Students are well prepared for further study and careers with a practical and procedural component. Students are engaged in biology because they have this opportunity.

Remote Learning and Revision

Students will benefit from additional study on-site and at home using their personal copy of their Oxford University Press Revision Guide provided by the UTC.

Students can communicate with the teacher via the message function on Teams if absent from school and well enough to do some work.

Students should use the following websites:

- Free Science Lessons – <https://www.freesciencelessons.co.uk>
- AQA Practice Papers - <https://www.aqa.org.uk/subjects/science/gcse/biology-8461/assessment-resources?f.Resource+type%7C6=Q+uestion+papers>

Students may choose to use the following additional websites:

- GCSE Pod – <https://www.gcsepod.com>
- Seneca – <https://senecalearning.com/en-GB/>

Curriculum Overview

The learning in GCSE Biology is sequenced as follows.

Note: the full Curriculum Plans are available on request to info@nefuturesutc.co.uk

Revision Resources – Click on the following for links to videos

The following links are used for **independent learning** and **catch-up** tasks alongside the **revision guide** provided by us at the UTC.

Paper 1 – Y10

Half term 1

B1 Cell structure and transport

1. [Eukaryotes vs Prokaryotes](#)
2. [Size of cells](#)
3. [Order of Magnitude](#)
4. [Animal cells](#)
5. [Plant cells](#)
6. [Animal cell specialisation](#)
7. [Plant cell specialisation](#)
8. [Microscopes \(Required practical 1\)](#)
9. [Microscopy](#)
10. [Diffusion](#)
11. [Surface area to volume ratio](#)
12. [Osmosis](#)
13. [Osmosis \(required practical 3\)](#)
14. [Active transport](#)

Half term 2

B2 Cell division

15. [Bacterial division](#)
16. [Culturing microorganisms \(Required practical 2\)](#)
17. [Mitosis](#)
18. [Stem cells](#)

B3 Organisation and the digestive system

19. [Digestive system](#)
20. [Digestive enzymes](#)
21. [Effect of temperature on enzymes](#)
22. [Effect of pH on amylase \(required practical 5\)](#)
23. [Food tests \(required practical 4\)](#)
24. [Absorption in the small intestine](#)

Half term 3

B4 Organising animals and plants

25. [The heart and circulation](#)
26. [Arteries veins and capillaries](#)
27. [The blood](#)
28. [Cardiovascular disease](#)

- 29. [Gas exchange and the lungs](#)
- 30. [Plant tissues](#)
- 31. [Transpiration](#)

Half term 4

B5 Communicable diseases

- 32. [Pathogens](#)
- 33. [Measles and HIV](#)
- 34. [Salmonella and gonorrhoea](#)
- 35. [Malaria](#)
- 36. [Infectious disease in plants](#)
- 37. [Plant disease detection](#) (HT only)
- 38. [Plant defence responses](#)

B6 Preventing and treating disease

- 39. [Vaccination](#)
- 40. [Antibiotics](#)
- 41. [Testing medicines](#)
- 42. [Monoclonal antibodies](#) (HT only)
- 43. [Uses of monoclonal antibodies](#) (HT only)

Half term 5

B7 Non-communicable diseases

- 44. [Cancer](#)
- 45. [Communicable vs non-communicable](#)
- 46. [Risk factors](#)
- 47. [Lifestyle diseases](#)

B8 Photosynthesis

- 48. [Photosynthesis](#)
- 49. [Uses of glucose from photosynthesis](#)
- 50. [Photosynthesis \(required practical 6\)](#)
- 51. [Factors affecting photosynthesis](#)

B9 Respiration

- 52. [Respiration](#)
- 53. [Exercise and respiration](#)
- 54. [Metabolism](#)

Half term 6

Revision

Half term 1

B10 The human nervous system

55. [Homeostasis](#)
56. [The Nervous System](#)
57. [Reaction Time \(required practical 7\)](#)
58. [The Brain](#)
59. [The Eye](#)
60. [How the eye focuses](#)
61. [Thermoregulation](#)

Half term 2

B11 Hormonal coordination

62. [The Endocrine System](#)
63. [Blood Glucose Regulation](#)
64. [Menstrual Cycle \(Interaction of hormones HT only\)](#)
65. [Contraception](#)
66. [Hormones to treat infertility](#)
67. [Negative Feedback](#)
68. [Plant hormones \(gibberlins and ethene HT only\)](#)
69. [Plant Responses \(Required practical 8\)](#)
70. [Uses of Plant Hormones](#)

B12 Homeostasis in action

71. [Controlling body temperature](#)
72. [The Kidneys](#)
73. [Maintaining Water Balance](#)

Half term 3

B13 Reproduction

74. [Sexual and Asexual reproduction](#)
75. [Meiosis](#)
76. [Advantages and disadvantages of sexual/asexual reproduction](#)
77. [DNA and the genome](#)
78. [DNA structure](#)
79. [Protein Synthesis](#)
80. [Mutations](#)
81. [Alleles](#)
82. [Cystic Fibrosis](#)
83. [Polydactyly](#)
84. [Family trees](#)
85. [Inheritance of Sex](#)

B14 Variation and evolution

- [86. Variation](#)
- [87. Evolution by Natural Selection](#)
- [88. Selective Breeding](#)
- [89. Genetic Engineering](#)
- [90. Cloning Plants](#)
- [91. Cloning Animals](#)

Half term 4

B15 Genetics and evolution

- [92. The History of Genetics](#)
- [93. Darwin and Natural Selection](#)
- [94. Speciation](#)
- [95. Fossils as evidence for evolution](#)
- [96. Resistant Bacteria as evidence for evolution](#)
- [97. Classification](#)

B16 Adaptation and interdependence

- [98. Competition and Interdependence](#)
- [99. Biotic and abiotic factors](#)
- [100. Adaptations](#)
- [101. Sampling Organisms](#)
- [102. Required practical 9](#)
- [103. Mean, median, mode](#)

B17 Organisation of an ecosystem

- [104. Food chains and predator-prey relationships](#)
- [105. Carbon cycle](#)
- [106. Water cycle](#)
- [107. Decomposition](#)
- [108. Decay \(required practical 10\)](#)

B18 The effect of human interactions on ecosystems and biodiversity

- [109. Environmental change](#)
- [110. Biodiversity](#)
- [111. Waste Management](#)
- [112. Land Use](#)
- [113. Climate Change](#)
- [114. Maintaining Biodiversity](#)
- [115. Trophic Levels](#)
- [116. Pyramids of Biomass](#)
- [117. Food Security](#)
- [118. Modern Farming Methods](#)



- 119. [Sustainable Fisheries](#)
- 120. [Biotechnology](#)