

Qualification: Biology (Triple)

What will be assessed in 2022?

Paper 1:

- 4.1.1 Cell structure
- 4.1.3 Transport in cells
- 4.2.2 Animal tissues, organs and organ systems
- 4.2.3 Plant tissues, organs and systems
- 4.3.1 Communicable diseases
- 4.3.2 Monoclonal antibodies

Required practical activities that **will be assessed**:

Required practical activity 1: use a light microscope to observe plant cells.

Required practical activity 3: investigate the effect of a range of concentrations of salt solution on the mass of plant tissue.

Required practical activity 4: use qualitative reagents to test for a range of carbohydrates, lipids and proteins.

Paper 2:

- 4.5.2 The human nervous system
- 4.5.3 Hormonal control in humans
- 4.5.4 Plant hormones
- 4.6.1 Reproduction
- 4.7.2 Organisation of an ecosystem

Required practical activities that **will be assessed**:

Required practical activity 8: investigate the effect of light on the growth of newly germinated seedlings.

Required practical activity 9: measure the population size of a common species in a habitat.

Topics not explicitly given in any list may appear in low tariff questions or via 'linked' questions. Linked questions are those that bring together knowledge, skills and understanding from across the specification.

Additional support provided by the exam board for the 2022 year only? None

What won't be assessed in 2022?

Paper 1:

- 4.2.2.3 Blood
- 4.2.2.7 Cancer
- 4.3.1.8 Antibiotics and pain killers
- 4.3.1.9 Discovery and development of drugs
- 4.4.2.2 Response to exercise

Paper 2:

- 4.5.2.1 Structure and function
- 4.5.2.2 The brain
- 4.5.2.3 The eye
- 4.5.3.4 Hormones in human reproduction
- 4.5.3.5 Contraception
- 4.5.3.6 The use of hormones to treat infertility
- 4.5.3.7 Negative feedback
- 4.5.4.2 Use of plant hormones
- 4.6.1.3 Advantages and disadvantages of sexual and asexual reproduction
- 4.6.1.8 Sex determination
- 4.6.2 Variation and evolution
- 4.6.3 The development of understanding of genetics and evolution
- 4.6.4 Classification of living organisms
- 4.7.1.4 Adaptations
- 4.7.2.4 Impact of environmental change
- 4.7.3.1 Biodiversity
- 4.7.3.4 Deforestation
- 4.7.3.6 Maintaining biodiversity
 - 4.7.4.1 Trophic levels
 - 4.7.4.2 Pyramids of biomass
 - 4.7.5.3 Sustainable fisheries
 - 4.7.5.4 Role of biotechnology