



EPCHS SCIENCE DEPARTMENT:

BIOLOGY LEARNING JOURNEY YEAR 12



Additional Information

Examination Board: AQA

Further Information:

<https://filestore.aqa.org.uk/resources/biology/specifications/AQA-7401-7402-SP-2015.PDF>

Additional Support: Masterclass; Tuesdays 3pm – 4pm

End of
Year Exams

**3.1-3.4
Revision**

**Complete 3.4 Genetic information, variation
and relationships between organisms**

Summer
Term

**3.3 Organisms exchange substances
with their environment**

Assessments

End of topic tests periodically

**3.4 Genetic information, variation and
relationships between organisms**

Spring
Term

3.2 Cells

Assessments

End of topic tests periodically

3.1. Biological Molecules

Autumn
Term

Units

3.1. Biological Molecules

Monomers and polymers, carbohydrates, lipids, proteins, nucleic acids, ATP, water, inorganic ions

3.2 Cells

Cell structure, microscopes, mitosis, the cell cycle, transport across cell membranes, cell recognition and the immune system

3.3 Organisms exchange substances with their environment

Surface area to volume ratio, gas exchange, enzymes and digestion, mass transport

3.4 Genetic information, variation and relationships between organisms

DNA, genes and chromosomes, protein synthesis, mutation, diversity and adaptation, taxonomy, biodiversity



EPCHS SCIENCE DEPARTMENT:

BIOLOGY LEARNING JOURNEY YEAR 13



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<https://www.senecalearning.com/>

Additional Support: Masterclass; Tuesdays 3pm – 4pm

Units

3.5 Energy transfers in and between organisms

Photosynthesis, respiration, energy and ecosystems, nutrient cycles.

3.6 Organisms respond to changes in their internal and external environments

Stimuli, nervous coordination, skeletal muscles, homeostasis

3.7 Genetics, populations, evolution and ecosystems

Inheritance, populations, evolution may lead to speciation, populations in ecosystems

3.8 The control of gene expression

Alteration of the sequence bases in DNA, control of gene expression, genome projects, gene technologies

End of Year Exams

3.1-3.8 Revision

Complete 3.8 The control of gene expression

Summer Term

3.7 Genetics, populations, evolution and ecosystems

Assessments

End of topic tests periodically

3.8 The control of gene expression

Spring Term

3.6 Organisms respond to changes in their internal and external environments

Assessments

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3.5 Energy transfers in and between organisms

Autumn Term