

A Level Biology KS5: Year 12



CARDINAL
NEWMAN
CATHOLIC SCHOOL



3.5 Energy transfers between Organisms I

- 3.5.3 Energy in ecosystems
- 3.5.4 Nutrient cycles



3.7 Genetics, populations, evolution and ecosystems I

- 3.7.4 Populations in ecosystems

Term
3:2

3.3 Exchange and transport III

- 3.3.4.1 Mass Transport in animals
- 3.3.4.2 Mass transport in plants



3.4 Genetic variation III

- 3.4.5 Taxonomy
- 3.4.6 Biodiversity in a community
- 3.4.7 Investigating biodiversity

Term
3:1

3.4 Genetic variation II

- 3.4.3 Diversity and meiosis.
- 3.4.4 Diversity and adaptations

3.3 Exchange and transport II

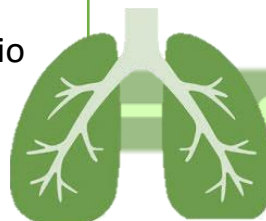
- 3.3.3.3 Digestion and absorption



Term
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3.3 Exchange and transport I

- 3.3.3.1 Surface area to volume ratio
- 3.3.3.2 Gas exchange



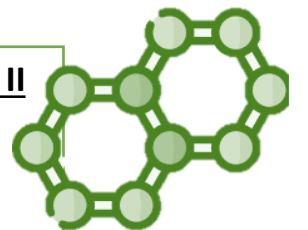
3.4 Genetic variation I

- 3.4.1 DNA, genes and chromosomes
- 3.4.2 DNA and protein synthesis

Term
2:1

3.1 Biological Molecules II

- 3.1.4 Proteins
- 3.1.5 Nucleic acids
- 3.1.6 ATP
- 3.1.7 Water
- 3.1.8 Inorganic ions.



3.2 Cells II

- 3.2.4 Cell division
- 3.2.5 Transport
- 3.2.6 Immune system

Term
1.2

Transition from GCSE

3.1 Biological Molecules I

- 3.1.1 Monomers & polymers
- 3.1.2 Carbohydrates
- 3.1.3 Lipids



3.2 Cells I

- 3.2.1 Eukaryotes,
- 3.2.2 prokaryotes & viruses
- 3.2.3 Studying cells



Term
1.1

OUR LEARNING
JOURNEY

A Level Biology KS5: Year 13



Examinations

Term
3:2

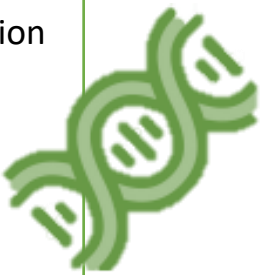
Revision and Review



Term
3:1

3.8 Control of gene expression I
3.8.1 Altering DNA can alter proteins
3.8.2.1 Most DNA is not transcribed
3.8.2.2 Regulation of transcription and translation
3.8.3 Gene expression and cancer

3.8 Control of gene expression II
3.8.3 Using genome projects
3.8.4.1 Recombinant DNA technology
3.8.4.2 Diagnosis of inherited diseases
3.8.4.3 Genetic fingerprinting



Term
2:2

3.6 Organisms respond to their environment II

- 3.6.4.1 Homeostasis and negative feedback
- 3.6.4.2 Maintaining blood glucose levels
- 3.6.4.3 Maintaining water potential

3.7 Genetics, populations, evolution and ecosystems II

- 3.7.1 Inheritance
- 3.7.2 Populations
- 3.7.3 Evolution and speciation

Term
2:1

3.6 Organisms respond to their environment II

- 3.6.2.1 Nerve impulses
- 3.6.2.2 Synaptic transmission
- 3.6.3 Skeletal muscle

3.5 Energy transfers between Organisms II
3.5.2 Respiration



Term
1.2

3.5 Energy transfers between Organisms II

- 3.5.1 Photosynthesis

3.6 Organisms respond to their environment I

- 3.6.1.1 Survival and response
- 3.6.1.2 Receptors
- 3.6.1.3 Control of heart rate

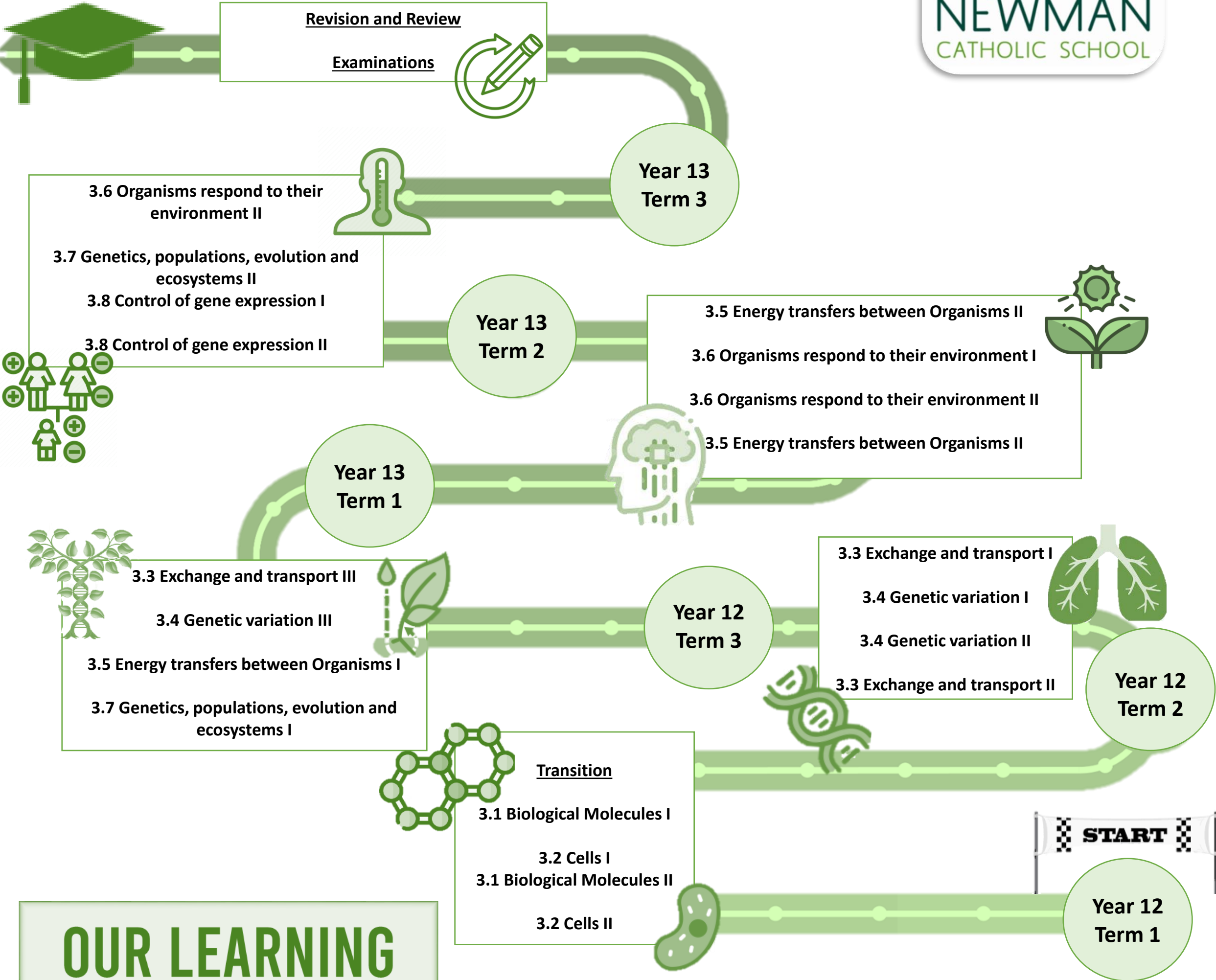


START

Term
1.1

**OUR LEARNING
JOURNEY**

A Level Biology



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