

BIOLOGY Curriculum Overview (GCSE)

2011-2012



Arnold
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YEAR	TOPICS
GCSE Module B1	<ol style="list-style-type: none">1. How do human bodies respond to changes inside them and to their environment?2. How do we use / abuse medical and recreational drugs?3. What causes infectious diseases and how can our bodies defend themselves against them?4. What determines where particular species live and how many of them there are?5. Why are individuals of the same species different from each other?6. What new methods do we have for producing plants and animals with the characteristics we prefer?7. Why have some species of plants and animals died out?8. How do new species of plants and animals develop?9. How do humans affect the environment?
GCSE Module B2	<ol style="list-style-type: none">1. What are animals and plants built from?2. How do dissolved substances get into and out of cells?3. How do plants obtain the food they need to live and grow?4. What happens to energy and biomass at each stage in a food chain?5. What happens to the waste material produced by plants and animals?

	<ol style="list-style-type: none"> 6. What are enzymes and what are some of their functions? 7. How do our bodies keep internal conditions constant? 8. Which human characteristics show a simple pattern of inheritance?
<p>GCSE Module B3</p> <p>(not taken by Science / Additional Science students)</p>	<ol style="list-style-type: none"> 1. How do dissolved substances get into and out of plants and animals? 2. How are dissolved materials transported around the body? 3. How does exercise affect the exchanges taking place within the body? 4. How do exchanges in the kidney help us to maintain the internal environment in mammals and how has biology helped us to treat kidney disease? 5. How are microorganisms used to make food and drink? 6. What other useful substances can we make using microorganisms? 7. How can we be sure we are using microorganisms safely?

PLEASE NOTE: This overview sets out a general summary of the basic curriculum taught. It is not an exhaustive list of what may be taught and subject teachers may not necessarily follow the order stated above. Further details may be obtained from the Head of Department, if required.

*For the triple scientists, B2 is started in Yr10 and is examined in January of Yr11

*For the Additional scientists, B2 is started in Yr11 and is examined in June of Yr11