



Scheme of work – Cambridge IGCSE® Biology (0610)

Unit 8: Inheritance and evolution

Recommended prior knowledge

Basic knowledge of Unit 1 cell structure is required, and also an understanding of the processes involved in sexual reproduction.

Context

This unit builds on the topic of sexual reproduction, covered in Units 6 and 7.

Outline

The unit begins with the introduction of several new terms, before moving on to genetics and inheritance. Variation, affected by both genotype and phenotype, is investigated, before considering the ideas of natural selection and evolution.

(Please note: **(S)** in bold denotes material in the Supplement (Extended syllabus) only)

Syllabus ref	Learning objectives	Suggested teaching activities	Learning resources
8.1	8.1 Inheritance Define inheritance as the transmission of genetic information from generation to generation	Students to come up with a possible definition of inheritance.	Overview – Genes and inheritance: www.abp-schools.org.uk/page/modules/genome/index.cfm
8.1.1	8.2 Chromosomes - Define the terms: - chromosome as a thread of DNA made up of a string of genes - gene as a length of DNA that is the unit of heredity and codes for a specific protein A gene may be copied and passed on to the next generation: - allele as any of two or more alternative forms of a gene - haploid nucleus as a nucleus containing a single set of	Students should know that a chromosome is a length of DNA, and that each chromosome carries a large number of genes. They may be interested to discuss the human genome project, which has mapped all the genes on the human chromosomes. Students may be familiar with the terms haploid and diploid when considering the processes involved in sexual reproduction. A haploid cell is one with a single set of chromosomes (for example a gamete) while a diploid cell has two complete sets. Meiosis produces haploid cells from a diploid cell. It is important to use the terms 'gene' and 'allele' correctly right from the start.	Biology for IGCSE, Williams et al, Nelson Thornes 2009 p202–203 The Human Genome Project: www.genome.gov/Education/ Includes factsheets and information on all aspects of genetics. Introduction to DNA/ chromosomes: www.learn.genetics.utah.edu/content/begin/hw/

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Table of Contents Mark Scheme Biology Igcse 0610 03 M J 07

1. Understanding the eBook Mark Scheme Biology Igcse 0610 03 M J 07
 - The Rise of Digital Reading Mark Scheme Biology Igcse 0610 03 M J 07
 - Advantages of eBooks Over Traditional Books
2. Identifying Mark Scheme Biology Igcse 0610 03 M J 07
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mark Scheme Biology Igcse 0610 03 M J 07
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mark Scheme Biology Igcse 0610 03 M J 07
 - Personalized Recommendations
 - Mark Scheme Biology Igcse 0610 03 M J 07 User Reviews and Ratings
 - Mark Scheme Biology Igcse 0610 03 M J 07 and Bestseller Lists
5. Accessing Mark Scheme Biology Igcse 0610 03 M J 07 Free and Paid eBooks
 - Mark Scheme Biology Igcse 0610 03 M J 07 Public Domain eBooks
 - Mark Scheme Biology Igcse 0610 03 M J 07 eBook Subscription Services
 - Mark Scheme Biology Igcse 0610 03 M J 07 Budget-Friendly Options

6. Navigating Mark Scheme Biology Igcse 0610 03 M J 07 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mark Scheme Biology Igcse 0610 03 M J 07 Compatibility with Devices
 - Mark Scheme Biology Igcse 0610 03 M J 07 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mark Scheme Biology Igcse 0610 03 M J 07
 - Highlighting and Note-Taking Mark Scheme Biology Igcse 0610 03 M J 07
 - Interactive Elements Mark Scheme Biology Igcse 0610 03 M J 07
8. Staying Engaged with Mark Scheme Biology Igcse 0610 03 M J 07
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mark Scheme Biology Igcse 0610 03 M J 07
9. Balancing eBooks and Physical Books Mark Scheme Biology Igcse 0610 03 M J 07
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mark Scheme Biology Igcse 0610 03 M J 07
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mark Scheme Biology Igcse 0610 03 M J 07
 - Setting Reading Goals Mark Scheme Biology Igcse 0610 03 M J 07
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mark Scheme Biology Igcse 0610 03 M J 07
 - Fact-Checking eBook Content of Mark Scheme Biology Igcse 0610 03 M J 07
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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web weigh your egg and note the measurement put your naked egg in a jar and add enough corn syrup to cover the egg store the egg in a refrigerator or somewhere cool for 24 hours after 24 hours scoop out the egg and observe the changes weigh the egg again and note the measurement extensions draw a diagram of your egg in the corn syrup

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web osmosis nitrogen fixation and other life processes investigate the cell cycle mitosis and cytokinesis observe populations and ecosystems and perform air and water pollution tests investigate

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web apr 16 2015 have you ever thought of a chicken egg as one big cell of course it is made up of many many actual cells but you can use it as a model to explore how different fluids get transferred from

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web measure each egg around at the widest point using a tape measure or a piece of string to use a piece of string take a piece of string and wrap it around the egg once mark with your finger the length of string that is needed to go around the egg once and measure it using a