

GCSE Separate Sciences

Module 1

Topic Title: Unit 10A

Brief Summary of Content Studied:

The human digestive system Transport in cells ,DNA & the genome, DNA Structure, How bonding & structure are related to the properties of substances, 1.3 Properties of Transition Metals ,Current, p.d & resistance ,Atoms & isotopes

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Other resources and reading:

[CGP books](#)

[Freesciencelessons.org](#)

[bbc bitesize](#)

Module 2

Topic Title: Unit 10B

Brief Summary of Content Studied:

Cell division, Variation & evolution, Classification ,Chemical analysis, Structure & bonding of carbon, Bulk & Surface Properties of Matter inc Nanoparticles, Series & parallel circuits, Current, resistance & p.d, Domestic uses & safety, 2.5 Static Electricity (2L)

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Other resources and reading:

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[Freesciencelessons.org](#)

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Module 3

Topic Title: Unit 10C

Brief Summary of Content Studied:

Theory of Evolution, Photosynthesis, Reactions of acids, Quantitative chemistry, Internal energy & energy transfers, Pressure & Pressure in Gases, Atoms & nuclear radiation

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Other resources and reading:

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Module 4

Topic Title: Unit 10D

Brief Summary of Content Studied:

Animal tissue organs & organ systems, Reproduction, Plant hormones, Reactivity of metals, Electrolysis, Hazards & Uses of Radioactive Emissions, Nuclear Fission & Fusion, Waves & Reflection, Sound Waves, Waves for Detection & Exploration.

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Other resources and reading:

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Module 5

Topic Title: Unit 10E

Brief Summary of Content Studied: Respiration, Trophic levels in an ecosystem, Yield & Atom Economy, using concentrations in solutions, Reactions of acids, Titrations use of amount of substances in relation to gases, Energy transfers, Electromagnetic waves,

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Module 6

Topic Title: Unit 10F

Brief Summary of Content Studied: Variation & evolution, Culturing Microorganisms, Resistant bacteria, Monoclonal Antibodies, Reversible reactions, Reactions of alkenes and alcohols, Chemical Cells & Fuel Cells, Identification of Ions, Using materials, Organic chemistry. Lenses & Visible Light, Black Body Radiation, Permanent and induced magnets, magnetic fields.

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Other resources and reading:

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