

Year Y10, BIOLOGY Trilogy, 2021/2022



Half Term 1: 6th September - 22nd October (7 weeks).

Half Term 2

Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7

Week 8 Week 9

B4.3 Infection and Response
Pathogens, disease transmission & prevention, body defenses, vaccines, antibiotics

Holiday

B4.4

Half Term 2: 1st November - 17th December (7 weeks).

Half Term 3: 3rd January - 18th February (7 weeks).

Week 10 Week 11 Week 12 Week 13 Week 14

Week 15 Week 16 Week 17

B4.4 Bioenergetics
Photosynthesis, aerobic & anaerobic respiration, metabolism, effects of exercise

Holiday

Holiday

B4.5 Homeostasis – NEW BOOK
Nervous system, endocrine glands & hormones, negative feedback, contraception & infertility

Half Term 3: 3rd January - 18th February (7 weeks).

Half Term 4: 28th February - 8th April (6 weeks).

Week 18 Week 19 Week 20 Week 21

Week 22 Week 23 Week 24 Week 25 Week 26

B4.5 Homeostasis
Nervous system, endocrine glands & hormones, negative feedback, contraception & infertility

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Half Term 5: 25th April - 27th May (5 weeks).

Week 27 Week 28 Week 29 Week 30 Week 31 Week 32

Week 33

B4.5
Holiday

B4.7 Ecology
Ecosystem organisation, biotic & abiotic factors, carbon & water cycle, biodiversity, human impacts

Paper 1 Mock Revision

Holiday

Paper 1 Mock Revision

Half Term 6: 6th June - 22nd July (7 weeks).

Week 34 Week 35 Week 36 Week 37 Week 38 Week 39

Trial Exams, catch-up and CTG

Curriculum Intent:
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C5.3 Quantitative Chemistry

Conservation of mass, balancing equations, reacting masses, moles, concentration, yield

Holiday

C5.4 Chemical Changes

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C5.4 Chemical Changes

Reactions of metals, acids and bases, displacement, pH scale, electrolysis

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C5.5 Energy Changes

Exothermic & endothermic reactions, energy profiles, energy calculations

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C5.7 Organic Chemistry – NEW BOOK

Crude oil, fractional distillation, cracking, polymerisation, alkanes & alkenes

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C5.7 Organic Chemistry

Crude oil, fractional distillation, cracking, polymerisation, alkanes & alkenes

C5.6 Rates of Reaction

factors affecting rate of reaction, calculating rate, catalysts, reversible reactions, equilibrium

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P6.3 Particle Model of Matter
Density, states of matter, specific latent heat, specific heat capacity, gases

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P6.6 Waves
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B4.7 Ecology

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Ecosystem organisation, biotic & abiotic factors, carbon & water cycle, biodiversity, human impacts, Decay, impact of environmental change, trophic levels, pyramids of biomass

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C5.3 Quantitative Chemistry

Conservation of mass, balancing equations, reacting masses, moles, concentration, yield, concentration, volume of gases

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Half Term 2

Week 8 Week 9

C5.4 Chemical Changes

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Reactions of metals, acids and bases, displacement, pH scale, electrolysis, titrations

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Half Term 3: 3rd January - 18th February (7 weeks).

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C5.5 Energy Changes

Exothermic & endothermic reactions, energy profiles, energy calculations, cells, batteries

Half Term 3: 3rd January - 18th February (7 weeks).

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C5.6 Rates of Reaction NEW BOOK

Factors affecting rate of reaction, calculating rate, catalysts, reversible reactions, equilibrium

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Half Term 4: 28th February - 8th April (6 weeks).

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C5.7 Organic Chemistry

Crude oil, fractional distillation, cracking, polymerisation, alkanes & alkenes, making alkenes, alcohols and carboxylic acids, amino acids & DNA

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C5.9

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C5.9 The Atmosphere

Gases in the atmosphere, earth changing atmosphere, impacts of polluting gases, greenhouse effect

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Density, states of matter, specific latent heat, specific heat capacity, gas particle motion and pressure

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P6.8 Space

Big Bang theory, solar system, life cycle of star, orbital motion

P6.6 Waves

Types and properties of waves, electromagnetic spectrum, refraction, infrared & colour, sound, ultrasound, seismic waves, reflection, lenses, colour, black body radiation

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