

Major themes of biology

ANYTHING NOT LISTED MAY BE TESTED BUT NOT HEAVILY

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Diffusion, osmosis & active transport	Movement of substances into and out of cells	Term 1 Lessons 3 - 5
Ventilation, gas exchange in humans & smoking	Gas exchange	Term 2 Lessons 8 - 9
Transpiration and translocation	Transport	Term 3 Lesson 5 (up to but not including 'roots and transpiration')
Blood	Transport	Term 1 Lesson 11
White blood cells	Transport	Term 1 Lesson 12 (not vaccination)
Heart	Transport	Term 1 Lesson 13
Hormones	Co-ordination and response	Term 1 Lesson 9
Nervous and endocrine system	Co-ordination and response	Term 1 Lesson 14
The eye	Co-ordination and response	Term 2 Lesson 1
Response in plants	Co-ordination and response	Term 3 Lesson 2
Homeostasis	Co-ordination and response	Term 4 Lesson 2 Revision sheet 2 (not 'maintaining water content')
Sexual / asexual reproduction and germination	Reproduction	Term 3 Lesson 7-8
Human reproduction and the menstrual cycle	Reproduction	Term 3 Lesson 10 (not LH and FSH)
Genetic diagrams, family pedigrees and sex determination	Inheritance	Term 3 Lesson 12 Revision sheet 1
Mitosis and meiosis	Inheritance	Term 3 Lesson 13 - 14
Mutation	Inheritance	Term 4 Lesson 1 (not past red line)
Genetic variation	Inheritance	Term 3 Lesson 11 Revision sheet 2 ONLY after red line
Selective breeding	Selective breeding	Term 4 Lesson 12

Not to be tested in biology

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Characteristics of living organisms	Characteristics of living organisms	Term 1 Lesson 1 (<i>8 things in red box at bottom</i>)
Levels of organisation	Levels of organisation	Term 1 Lesson 1 (<i>1st section – 8 bullet points</i>)
Respiration	Respiration	Term Lesson 7 Revision sheet 1
Investigating respiration practicals	Respiration	Term 2 Lesson 11 core practical sheet (<i>investigating respiration</i>)
Kidneys	Excretion	Term 1 Lesson 10
Carbon and nitrogen cycle	Cycles within ecosystems	Term 4 Lesson 5
Greenhouse effect and air pollution, water pollution and deforestation	Human influences on the environment	Term 4 Lesson 6 - 8
Genetic engineering and cloning	Genetic modification and cloning	Term 4 Lesson 14 and 15

Major themes of chemistry

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
States of matter and diffusion	States of matter	Term 1 Lessons 3
Solubility	States of matter	Term 1 Lesson 4 revision sheet page 1
Atomic structure and charge	Atomic structure	Term 1 Lesson 1
Isotopes and relative atomic mass	Atomic structure	Term 2 Lesson 2
Balancing equations, relative particle mass, moles, calculating masses, percentage yield, water of crystallisation, empirical / molecular formulae	Chemical formulae, equations and calculations	Term 2 Lessons 1-6 (not volumes in lesson 5) and lesson 8.
Covalent substances	Covalent bonding	Term 1 Lesson 11
Covalent dot cross diagrams	Covalent bonding	Term 1 Lesson 12
Covalent substances	Covalent bonding	Term 1 Lesson 13 revision sheet 1
The atmosphere and oxygen in reactions	Gases in the atmosphere	Term 3 Lesson 5
Thermal decomposition	Gases in the atmosphere	Term 3 Lesson 6 revision sheet 1
Tests for cations and anions Tests for water and gas	Chemical tests	Term 3 Lesson 11 - 12
Rates of reaction and catalysts	Rates of reaction	Term 4 Lesson 3-4
Crude oil, burning hydrocarbons, acid rain and cracking	Crude oil	Term 4 Lesson 6 - 8
Burning hydrocarbons	Crude oil	Term 4 Lesson 7
Alkanes	Alkanes	Term 4 Lesson 10 revision sheet 1

Not to be tested in chemistry

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Alkali metals	Group 1	Term 2 Lesson 11
Halogens	Group 7	Term 3 Lesson 1 revision sheet 2
Endothermic and exothermic	Energetics	Term 3 Lesson 13
Measuring and calculating enthalpy change	Energetics	Term 3 Lesson 14 and term 4 lesson 1
Bond energies	Energetics	Term 4 Lesson 2
Reversible reactions	Reversible reactions and equilibria	Term 4 Lesson 5
Addition and condensation polymers	Synthetic polymers	Term 4 Lesson 14 - 15

Major themes of physics

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Formulas	-	Term 1 Lesson 1
Speed, velocity, acceleration and final speed	Movement and position	Term 1 Lessons 4 - 5
Electricity	Energy and voltage in circuits	Term 2 Lessons 4 - 11
Waves	Properties of waves	Term 3 Lesson 2 Revision sheet 1
Conservation of energy, energy efficiency, energy transfers and Sankey diagrams	Energy transfer	Term 3 Lesson 9 - 10
Heat transfer	Energy transfer	Term 1 Lesson 11
Density and pressure	Density and pressure	Term 4 Lesson 2
Radioactivity, nuclear equations, half life and uses of radiation	Radioactivity	Term 4 Lesson 11 – 14 (in 14 only the uses, not the risks)
Gravity, the universe and orbital speed	Motion in the universe	Term 2 Lesson 1

Not to be tested in physics

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Static electricity	Electric charge	Term 3 Lesson 1
Non-renewable and renewable energy	Energy resources and electricity generation	Term 3 Lesson 14 and Term 4 Lesson 1
Changing state and specific heat capacity	Change of state	Term 4 Lesson 3 and 5
Magnetism	Magnetism	Term 4 Lesson 6 revision sheet 1 and the core practical sheet
Classifying stars and stellar evolution	Stellar evolution	Term 2 Lesson 2
Red shift and the big bang	Cosmology	Term 2 Lesson 3

Is there anything I
can **not revise at all?**

biology

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Characteristics of living organisms	Characteristics of living organisms	Term 1 Lesson 1 (<i>8 things in red box at bottom</i>)
Levels of organisation	Levels of organisation	Term 1 Lesson 1 (<i>1st section – 8 bullet points</i>)
Respiration	Respiration	Term Lesson 7 Revision sheet 1

chemistry

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Alkali metals	Group 1	Term 2 Lesson 11

physics

TOPIC	EDEXCEL DOCUMENT	REVISION SHEET
Static electricity	Electric charge	Term 3 Lesson 1
Non-renewable and renewable energy	Energy resources and electricity generation	Term 3 Lesson 14 and Term 4 Lesson 1
Magnetism	Magnetism	Term 4 Lesson 6 revision sheet 1 and the core practical sheet
Classifying stars and stellar evolution	Stellar evolution	Term 2 Lesson 2