

Year 7

7A Cells, Tissues, Organs and Systems

7E Mixtures and Separation

7B Sexual Reproduction in Animals

7I Energy

7J Electricity

7G The Particle Model

7F Acids and Alkalis

7C Muscles and Bones

7K Forces

7D Ecosystems

7L Sound

7H Atoms, Elements and Molecules

Term 1

Term 3

Term 5

On to Year 8

Term 2

Term 4

Term 6

- ☐ 7A Cells, tissues, organs and organ systems
- Life processes
- Organs
- Tissues
- Microscopes
- Cells
- Organ Systems
- ☐ 7E Mixtures and Separation
- Solutions
- Evaporation
- Chromatography
- Distillation

- ☐ 7B Sexual Reproduction in Animals
- Animal Reproduction
- Reproductive organs
- Becoming pregnant
- Gestation and birth
- Growing up
- ☐ 7I Energy
- Energy and Changes
- Energy from food
- Energy transfers and stores
- Fuels
- Other energy resources
- Using resources

- ☐ 7J Electricity
- Switches and Current
- Series and Parallel circuits
- Changing the Current
- Using Electricity
- ☐ 7G The Particle Model
- Solids, liquids and gases
- Particles
- Brownian motion
- Diffusion
- Air Pressure

- ☐ 7F Acids and Alkalis
- Hazards
- Indicators
- Acidity and Alkalinity
- Neutralisation
- Neutralisation in daily life
- ☐ 7C Muscles and Bones
- Muscles and Breathing
- Muscles and Blood
- The Skeleton
- Muscles and moving
- Drugs
- ☐ Drugs and Sport

- ☐ 7K Forces
- Forces
- Springs
- Friction
- Pressure
- Balanced and unbalanced
- ☐ 7D Ecosystems
- Variation
- Adaptations
- Effect of the Environment
- Transfers in food chains

- ☐ 7L Sound
- Animal Sounds
- Moving sounds
- Detecting sounds
- Using sound
- Comparing waves
- ☐ 7H Atoms, Elements and Molecules
- The Air we breathe
- Earth's Elements
- Metals and Non-metals
- Making Compounds
- Chemical Reactions

Year 8

8A Food and Nutrition	8E Combustion	8B Plants and their Reproduction	8I Fluids	8J Light	8G Metals and their uses
8F The Periodic Table	8C Breathing and Respiration	8K Energy Transfers	8D Unicellular Organisms	8L Earth and Space	8H Rocks

Term 1

Term 3

Term 5

On to Year 9

Term 2

Term 4

Term 6

- 8A Food and Nutrition
 - Nutrients
 - Uses of Nutrients
 - Balanced Diets
 - Digestion
 - Absorption
- 8E Combustion
 - Burning Fuels
 - Oxidation
 - Air Pollution
 - Global Warming
 - Reducing Pollution

- 8B Plants and their Reproduction
 - Classification and Biodiversity
 - Types of Reproduction
 - Pollination
 - Fertilisation and Dispersal
 - Germination and growth

- 8I Fluids
 - The Particle model
 - Calculations with density
 - Changing state
 - Pressure in fluids
 - Floating and Sinking
 - Drag

- 8J Light
 - Seeing things
 - Reflection
 - Refraction
 - Cameras and eyes
 - Colour

- 8F The Periodic Table
 - Dalton`s Atomic Model
 - Chemical Properties
 - Mendeleev`s Table
 - Physical Trends
 - Chemical Trends

- 8G Metals and their uses
 - Metal properties
 - Corrosion
 - Metals and water
 - Metals and acids
 - Pure metals and alloys

- 8C Breathing and Respiration
 - Aerobic Respiration
 - Gas Exchange system
 - Getting Oxygen
 - Comparing Gas Exchange
 - Anaerobic Respiration

- 8K Energy Transfers
 - Temperature Changes
 - Transferring Energy
 - Power and Efficiency
 - Paying for Energy

- 8D Unicellular Organisms
 - Unicellular or multicellular
 - Microscopic Fungi
 - Bacteria
 - Protoctists
 - Decomposers and carbon

- 8L Earth and Space
 - Changing ideas
 - Seasons
 - Magnetic Earth
 - Gravity in Space
 - Beyond the Solar System

- 8H Rocks
 - Rocks and their uses
 - Igneous and Metamorphic
 - Weathering and Erosion
 - Sedimentary rocks
 - Materials and the Earth

Year 9

9A Genetics	9E Making Materials	9B Plant Growth	9I Forces and Motion	9J Force Fields and Electromagnets	9F Reactivity
B1 Cell Biology	C1 Atomic Structure and the Periodic Table	P1 Energy	P2 Electricity		

Term 1

Term 2

Term 3

Term 4

Term 5

Term 6

On to Year 10

- 9A Genetics
 - Environmental Variation
 - Inherited Variation
 - DNA
 - Genes and Extinction
 - Natural Selection
- 9E Making Materials
 - About Ceramics
 - Polymers
 - Composite materials
 - Problems with materials
 - Recycling Materials
- 9J Force Fields and Electromagnets
 - Force Fields
 - Static Electricity
 - Measuring electricity
 - Resistance
 - Electromagnets

- 9B Plant Growth
 - Reactions in Plants
 - Plant Adaptations
 - Plant Products
 - Growing Crops
 - Farming Problems
- 9I Forces and Motion
 - Forces and Movement
 - Energy and Movement
 - Speed
 - Turning Forces
 - More Machines
- 9F Reactivity
 - Types of Explosion
 - Reactivity
 - Energy and Reactions
 - Displacement
 - Extracting Materials

- B1 Cell Biology part a
 - Cell Structure
 - Light Microscopes
 - Microscope Calculations
 - Specialised cells and differentiation
- B1 Cell Biology part b
 - Chromosomes
 - Mitosis
 - Stem Cells
 - Stem Cell ethics and risks
- B1 Cell Biology part c
 - Diffusion
 - Osmosis (RP)
 - Active Transport
 - Exchanging Substances

- C1 Atomic Structure and the Periodic Table part a and b
 - Atoms, elements and compounds
 - Separating mixtures
 - Models of the atom
 - The structure of the atom
 - Relative Atomic Mass
- C1 Atomic Structure and the Periodic Table part c
 - The Periodic Table
 - Group one
 - Group 7
 - Group 8
 - The History of the Periodic Table

- P1 Energy
 - Energy Stores
 - Kinetic Energy
 - Gravitational Energy
 - Elastic Potential Energy
 - Calculating Energy using Specific Heat Capacity (RP)
 - Calculating energy efficiency
 - Renewable and non-renewable resources
 - Using different energy resources

- P2 Electricity
 - Circuit symbols, current and charge
 - Potential difference and resistance
 - Resistance of a wire
 - IV Characteristics (RP)
 - Series and Parallel circuits
 - Electricity use in the home
 - Energy transfers
 - The National Grid