

KS3 Science

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 1

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Climate and pollution	Variation, evolution, inheritance.	Wave effects, wave properties	The nine forms of Energy, dissipation, thermodynamics.	Cells organelles including ribosomes and mitochondria.	Conduction, convection, radiation, insulation.
Earth's resources, fossil fuels, energy demands, renewable energy.	Variables, data collection and presentation, data	Variation, natural selection, selective breeding, genetic engineering.	Photosynthesis, decay and the carbon cycle.	Motion, speed, distance, time. Velocity and acceleration.	

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Magnetism, Electromagnets	Energy types, Energy transfer, Newton's 3 rd law.	Periodic table, Chemical reactions,	Rocks and the rock cycle	Properties of light, frequency, wavelength, reflection, colour.	Breathing and respiration.
Electrical circuits, components, voltage and resistance.	Atoms, Elements and mixtures.	Contact forces, Newtons, friction, pushing, pulling, twisting, resultant force	Pathogens, disease, immunity.	Human reproduction.	Digestion, absorption, enzymes.

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Particle model- properties of solids, liquids and gasses.	Levels or organisation, animal and plant cells, organelles.	Movement, Exercise, health and nutrition, macro-nutrients	Species adaptations, interdependence and ecosystems	Properties of sound, frequency, vibration, echoes.	Speed, distance, time.
Separating mixtures, solutes and solvents	. Chemical reactions, metals, non-metals.	Organ systems- the heart.	The Earth in space, Earth's structure.	Acids and alkalis, neutralisation reactions.	Gravity, mass, weight.

