## Key Stage 3 Topics and Outcomes



Торіс	Outcome
Relationships in an ecosystem	How organisms affect, and are affected by, their environment, including the accumulation of toxic
	materials.
The particulate nature of matter	The properties of the different states of matter
	(solid, liquid and gas) in terms of the particle
	model, including gas pressure.
	Changes of state in terms of the particle model.
Energetics	Energy changes on changes of state (qualitative).
Earth and atmosphere	Earth as a source of limited resources and the
	efficacy of recycling.
	The carbon cycle.
	The composition of the atmosphere.
	The production of carbon dioxide by human
	activity and the impact on climate.
Energy	Comparing power ratings of appliances in watts
	(W, kW).
	Comparing amounts of energy transferred (J, kJ,
	kW hour).
	Domestic fuel bills, fuel use and costs.
	Fuels and energy resources.
	Other processes that involve energy transfer:
	changing motion, dropping an object,
	completing an electrical circuit, stretching a
	spring, metabolism of food, burning fuels.
	Energy as a quantity that can be quantified and
	calculated; the total energy has the same value
	before and after a change.
Motion and Forces	Pressure in liquids, increasing with depth;
	upthrust effects, floating and sinking.
Matter	Conservation of material and of mass, and
	reversibility, in melting, freezing, evaporation,
	sublimation, condensation, dissolving.
	Similarities and differences, including density
	differences, between solids, liquids and gases.
	Brownian motion in gases.
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