

Curriculum Map – Science Year 7

	1	2	3	4	5	6		
	Topic Title Working scientifically	Theme: Cells and Transport(B1)	Theme: Particles and their behaviour(C1)	Theme: Forces and motion(P1)	Theme: Body systems(B2)	Theme: Particles in solutions(C2)	Theme: Energy transfer(P2)	Theme: Reproduction(B3)
Y7	Big Questions: How do you carry out a scientific investigation?	Big Questions: What is the structure and function of cells? How are substances transported through cells?	Big Questions: How are the particles of different substances arranged?	Big Questions: What is a force?	Big Questions: How are organisms organised?	Big Questions: How are particles arranged? How are particles separated?	Big Questions: Where does electricity come from? How is energy stored and transferred?	Big Questions: <i>What changes do organisms go through in the different stages of their development?</i>
Links to NC	Scientific questioning and planning Collecting and presenting data Analyzing data	structure of animal cell, structure of plant cell, organelles, function of organelles, specialized cells, hierarchy within multicellular organisms, basics of respiration, photosynthesis	solids, liquids, gases, movement of particles and their attraction, heating/cooling, melting/freezing, boiling/condensation, gas pressure.	forces, force arrows, newton's, interaction pairs, resultant forces, speed, friction	respiratory system, skeletal system, muscular system	mixtures, compounds & bonds, impurities and pure substances, separating mixtures solute, solvent, solutions, dissolving, concentration, diffusion, crystallization	generation of electricity, non-renewable and renewable energy, formation of fossil fuels, energy is stored in systems, energy transfers, joules, dispersion of energy, work, useful energy	this topic needs to fundamentally focus on the importance of reproduction → key idea: reproduction (asexual and sexual) is the formation of offspring that have characteristics of the parents
	Assessment per half term		CFU e.g. Blast from the past		Substantive knowledge e.g. quiz or exam questions		Disciplinary knowledge – Part or complete practical	

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