YEAR 8 CURRICULUM INFORMATION – KS3 Science		
	Summer 1	Summer 2
What will students be learning?	Biology: Evolution: • Natural selection • Charles Darwin • Extinction • Preserving biodiversity Chemistry: Earth's structure: • The structure of the Earth • Sedimentary rocks • Igneous and metamorphic rocks • The rock cycle • Ceramics Physics: Electricity: • Potential difference • Resistance • Series and parallel circuits • Current • Charging up	Biology: Inheritance: • Inheritance • DNA • Genetics • Genetic modification Chemistry: Climate and resources: • Global warming • The carbon cycle • Climate change • Extracting metals • Recycling Physics: Magnetism: • Magnets • Magnetic fields • Electromagnets • Using electromagnets Followed by consolidation and revision time for end of year tests
How will students be assessed?	Milestone assessments In lesson interim knowledge checks	Milestone assessments In lesson interim knowledge checks **BASE Assessment**
Literacy – What keywords will be taught?	Biology: evolution, fossil, natural selection, peer review, extinct, competition, biodiversity, population, endangered species, conservation, captive breeding, gene bank, Chemistry: crust, mantle, core, mineral, sedimentary rock, igneous rock, metamorphic rock, porous, weathering, sediment, erosion, transport,	Biology: inherited characteristics, DNA, chromosome, gene, mutation, allele, dominant, recessive, Punnett square, genetic modification Chemistry: atmosphere. Greenhouse effect, greenhouse gas, global warming, respiration,

	deposition, strata, igneous, durable, magma, lava, metamorphic, rock cycle, uplift, ceramic Physics: cell, battery, potential difference, voltmeter, volts, rating, voltage, resistance, ohms, electrical conductors, electrical insulator, series, parallel, current, ammeter, motors, electric charge, attract, repel, electrostatic force, atoms, electrons, neutral, charged up, negatively charged, positively charged, lightning electric field.	combustion, fossil fuel, photosynthesis, carbon cycle, carbon sink, climate change, natural resources, mineral, ore, extraction, electrolysis, recycling Physics: magnet, magnetic poles, magnetic field, magnetic force, magnetic field lines, permanent magnet, solenoid, electromagnet, core, magnetise, electric bell, circuit breaker, loudspeaker
What employability skills are being developed?	Interpersonal skills Group work Logical and lateral thinking Developing links between topics and ideas Investigative skills Analytical skills	Interpersonal skills Group work Logical and lateral thinking Developing links between topics and ideas Investigative skills Analytical skills
Wider Curriculum Links?	Maths: measuring angles Food/gardening/horticulture Links with other STEM subjects	Maths: measuring angles Food/gardening/horticulture Links with other STEM subjects
What useful websites are there for this topic?	BBC Bitesize KS3 Science KS3 Science - BBC Bitesize	BBC Bitesize KS3 Science KS3 Science - BBC Bitesize
What wider reading could be done for this topic?	There are a selection of KS3 revision guides available online such as: CGP KS3 Science | CGP Books Oxford University Press: Activate KS3 Science	There are a selection of KS3 revision guides available online such as: CGP KS3 Science | CGP Books Oxford University Press: Activate KS3 Science
What else can students be doing independently to develop their understanding of this topic?	Regularly reviewing work and topics completed in lessons Completing further reading around the topics covered Revise for milestone assessments Practice mathematical skills such as range, mean, percentages and graph skills etc	Regularly reviewing work and topics completed in lessons Completing further reading around the topics covered Revise for milestone assessments Practice mathematical skills such as range, mean, percentages and graph skills etc