

YEAR 7 CURRICULUM INFORMATION – KS3 Science		
	Spring 1	Spring 2
What will students be	Biology:	Biology:
learning?	Complete the unit on Movement from Autumn 2	Complete Variation unit
	Levels of organisation	Human reproduction
	The skeleton	Adolescence
	Movement: joints	Reproductive systems
	Movement: muscles	Specialised cells
	Variation	Introduction to inheritance
	Introduction to variation	 Fertilisation and implantation
	Continuous and discontinuous	 Development of a foetus
	Adapting to change	The menstrual cycle
	<u>Chemistry:</u>	Chemistry:
	Complete the unit on Separating mixtures from Autumn 2	Metals and non-metals
	Pure substances and mixtures	More about elements
	Solutions	 Chemical reactions and metals and non-metals
	Solubility	Metals and acids
	Filtration	 Metals and oxygen
	Evaporation and distillation	Metals and water
	Chromatography	Metal displacement reactions
	Physics:	Physics:
	Complete the unit of Forces and speed from Autumn 2	Gravity and the universe
	Introduction to forces	Gravity
	Balanced and unbalanced forces	The night sky
	Speed	The solar system
	Distance-time graphs	The Earth
	Friction and drag	 The moon and changing ideas
	Squashing and stretching	Science Skills:
	Turning forces	Enquiry processes
	Science Skills:	Asking Scientific questions
	Complete the unit of scientific calculations from Autumn 2	Planning investigations
	 Using a calculator, calculating mean and range 	 Collecting, recording and presenting data
	Calculating percentages	Analysing patterns in data



	Substituting values into formulas and rearranging formulas	Evaluating data and methods
	 Measuring and converting time 	
How will students be	Milestone assessments	Milestone assessments
assessed?	In lesson interim knowledge checks	In lesson interim knowledge checks
	Independent homework tasks	Independent homework tasks
Literacy – What keywords	Biology:	Biology:
will be taught?	bone, skeleton, muscular skeletal system, bone marrow, joints,	adolescence, puberty, sex hormones, reproductive system, sperm cell,
	cartilage, ligaments, tendons, antagonistic muscle pair, cell	testicles (testes), scrotum, semen, sperm duct, urethra, penis, sexual
	<u>Chemistry:</u>	intercourse, egg cell, ovary, oviduct (fallopian tube), uterus (womb),
	pure substance, solution, dissolve, solvent, solute, saturated solution,	cervix, vagina, gamete, fertilisation, cilia, ejaculation, embryo,
	solubility, soluble (insoluble), solubility curve, filtration, filtrate,	implantation, gestation, fetus, placenta, umbilical cord, amniotic fluid,
	residue, distillation, chromatography, chromatogram	period, menstruation, menstrual cycle, ovulation, contraception,
	Physics:	condom, contraceptive pill
	push, pull, contact force, friction, air resistance, gravity, non-contact	Chemistry:
	force interaction pair, newton meter, newton (N), resultant force,	element, Periodic Table, chemical symbol, metal, non-metal, physical
	balanced. equilibrium, unbalanced, driving force, resistive force,	property, chemical property, oxide, word equation, reactant, product,
	speed, metres per second, average speed, relative motion, distance-	oxidation, reactive, reactivity, reactivity series, displace, displacement,
	time graph, acceleration	thermite reaction
		Physics:
		gravitational force, field, weight, mass, kilogram (kg), gravitational field
		strength, artificial satellite, orbit, Earth, Moon, natural satellite, planet,
		Sun, Solar System, star, galaxy, Milky Way, exoplanet, Universe, light
		year, asteroid, dwarf planet, axis, day, night, year, season,
		constellation, phases of the Moon, models, geocentric model,
		heliocentric model
What employability skills	Interpersonal skills	Interpersonal skills
are being developed?	Group work	Group work
	Logical and lateral thinking	Logical and lateral thinking
	Developing links between topics and ideas	Developing links between topics and ideas
	Investigative skills	Investigative skills
	Analytical skills	Analytical skills
Wider Curriculum Links?	Maths: measuring angles	Maths: measuring angles
	Food/gardening/horticulture	Food/gardening/horticulture
	Links with other STEM subjects	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	There are a selection of KS3 revision guides available online such as: CGP KS3 Science CGP Books
	Oxford University Press: Activate KS3 Science	Oxford University Press: Activate KS3 Science
What else can students	Regularly reviewing work and topics completed in lessons	Regularly reviewing work and topics completed in lessons
be doing independently	Completing further reading around the topics covered	Completing further reading around the topics covered
to develop their	Revise for milestone assessments	Revise for milestone assessments
understanding of this	Practice mathematical skills such as range, mean, percentages and	Practice mathematical skills such as range, mean, percentages and
topic?	graph skills etc	graph skills etc