CURRICULUM PROGRESSION PATHWAYS SUBJECT: SCIENCE HOD: Ms C Jones

2020/21

Quality of Education: Curriculum is planned and sequenced so that new knowledge and skills build on what has been taught before and leads towards a clearly defined end points.

Vision: The Science department at Six Villages has a vision to provide a broad curriculum that covers the knowledge, specialist practical skills and scientific literacy that will empower and impassion students to engage with the world around them with in an informed and evaluative way. The curriculum aims to provide students with all of the skills and knowledge needed to follow career paths whether up to college or university level further education.

and standard form.

<u>KS3</u>			KS4 GCSE		FE Careers
Yr7	Yr8	Yr9		Year 11:	
			Year 10:	Knowledge:	A wide array of UK
Knowledge: Lab safety	Knowledge:	Knowledge:	Knowledge:		science
				Biology: The human nervous system,	apprenticeships
Biology: Cells and tissues, organ	Biology: Cells and tissues, Organs	Biology: Cellular Transport,	Biology: Cell Biology, Genes, Chromosomes, Mitosis,	Hormonal co-ordination, Reproduction,	leading to start in
systems, Reproduction, Health and	and disease, Reproduction,	Microbes.	Transport in cells, Enzymes and digestion, Heart,	Genetics and evolution, Adaptations,	animal husbandry,
disease, Bioenergetics,	Bioenergetics, Ecosystems.		blood, vessels and gas exchange, Non-Communicable	interdependence and competition,	construction and T
Ecosystems.		Chemistry: Reactivity and	Diseases, Plant structure, Photosynthesis and	Feeding relationships, Biodiversity and	Level qualifications.
	Chemistry: Atoms and bonding,	Electrolysis, Rates of	respiration Infection, Response, Communicable	ecosystems.	
Chemistry: Atoms and bonding,	Periodic table, Reactions, Salts,	reaction.	diseases		Also a firm
Periodic table, Reactions, Salts,	Reactivity			Physics: Forces, motion and elasticity,	foundation for A
Reactivity		Physics: Radioactivity,	Chemistry: Atomic Structure, The Periodic Table,	Properties of Waves, Magnetism &	Level Science and
	Physics: Energy and states,	Forces.	Bonding, Structure and Properties, Chemical	Electromagnetism, Space and Pressure	Psychology for
Physics: Energy and states,	Electricity, Forces, Waves, Space.	a	calculations, reversible reactions and analysis,	(Triple only)	careers in Police,
Electricity, Forces, Waves, Space.	61.00 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	Skills: Identifying variables,	Chemical Changes, Electrolysis, Reactions of Acids,		Nursing, Health Care,
01.311-	Skills: Identifying variables,	method writing and	Energy Changes	Chemistry: Rates and Equilibrium, Crude	Technicians in
Skills:	method writing and experimental	experimental design,	District Francisco Constitution of Constitution	oil and Fuels, Organic Reactions, Chemical	hospitals, Mechanics
Selecting variables, method	design, identifying and minimising	identifying and minimising	Physics: Energy Stores, Conservation of energy,	Analysis, The Earth's Atmosphere, The Earth's Resources	as well as Electricians and
writing, identifying and minimising risks, conducting practical	risks, conducting practical	risks, conducting practical	Energy resources, Current Electricity, Mains Electricity, Particle Model of Matter, Radiation	Earth's Resources	Plumbers
experiments, using scientific	experiments, using scientific terminology, drawing simple	experiments, using scientific terminology, drawing	Electricity, Particle Model of Matter, Radiation	Skills: Identifying variables, writing and	Plumbers
terminology, drawing simple	conclusions, designing accurate	detailed conclusions,	Skills: Identifying variables, writing and improving	improving methods, identifying and	
conclusions, plotting accurate	graphs, identifying trends in data,	designing graphs, identifying	methods, identifying and minimising risks,	minimising risks, conducting practical	
graphs, identifying trends in data,	evaluating, rearranging formula,	and describing trends in	conducting practical experiments, using scientific	experiments, using scientific terminology	
rearranging formula, working with	working with means, significant	data, comparing and	terminology to describe concepts, drawing detailed	to describe concepts, drawing detailed	
means and decimal places.	figures and standard form.	evaluating, rearranging	conclusions, designing graphs, identifying and	conclusions, designing graphs, identifying	
means and decimal places.	ga. es ana standara form.	formula, working with	describing trends in data, comparing and evaluating,	and describing trends in data, comparing	
		means, significant figures	rearranging formula, working with means, significant	and evaluating, rearranging formula,	
		and standard form.	figures and standard form.	working with means, significant figures	