Gatehouse School – Science Curriculum Overview Years 1-6 – 2020-2021

	Autumn 1	Autumn2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Humans	Materials	Humans and Animals	Animals	Plants	Seasonal Changes
	What are our body parts? How do we use them? Are we alike or different?	Can we identify different materials? Can we sort different materials? What are they used for?	What are the similarities and differences between animals and humans? What are the similarities and differences between	What do different animals need to survive? How can we care for different animals?	Can you identify and name common plants? What are the different parts of a plant called?	What are the different seasons? How do the seasons change?
V2			different animals?	Electrical	District	Discussion II
Year 2	Animals and Humans What do animals need to survive?	Living things and their Habitats What are the differences between living and non-living things? How do animals survive in different habitats?	Materials How can we use different materials? How can we change materials?	What are the uses of electricity? How can we create a simple circuit?	Plants I What do plants need to grow?	What are the different parts of a plant?
Year 3	Can you name the different teeth and their functions?	What are the different types of rocks? How are rocks formed?	What are the different forces at work? What can a force do to an object?	What are the functions of different parts of the plant?	What happens in reflection? What happens in dispersion?	Children will be introduced to topics from the autumn term next year

	What is a balanced diet? What is digestion?	How are fossils formed?	What is a magnet? Where is the magnetic field	What happens in photosynthesis? What is mineral	How is a shadow formed?	
	What is digestion:		found?	deficiency?		
Year 4	Moving and Growing	Solids, Liquids and Gases	Electricity	Habitats	Sound	Sound/Revision How can we change
	What is the function of the skeleton?	What are the	How does electricity flow?	How have animals adapted to live in	How does sound travel?	the pitch and amplitude of sound?
	How do the muscles help us to move? What are the	properties of solids, liquids and gases? Can you draw particle	•	different habitats? What does a food chain show?	How do we hear sound?	Children will be introduced to topics from the autumn
	different types of muscles?	diagrams to show the arrangement of particles in the	circuit? What is a conductor/insulator?	How do we draw a food web?		term next year
	Muscle dissection	different states of matter? What happens in				
		changes of state? What happens in the water cycle?				
Year 5	The Heart and	Separating Mixtures	Advanced Forces	Respiration and	Space	Space/Revision
	Circulatory System		and Friction	Digestion		
		What methods can			What are the	Can we predict the
	What are names of	we use to separate	What is the	What is aerobic	different planets in	future of space
	the chambers of the	mixtures?	difference between	respiration?	the solar system?	exploration?
	heart?	How do you carry out	a balanced and unbalanced force?	What is anaerobic	What happens in the	
	What happens in the double circulatory	chromatography? What is the	What is a resultant	respiration? What are the	life cycle of a main sequence star?	
	system?	difference between a	force?	differences between	What happens in the	
	How does the heart	chemical and physical		aerobic and	life cycle of a massive	
	pump blood? (cardiac	change?	the effects of air	anaerobic	star?	
	cycle)		resistance?	respiration?	How can we explore	
		Using Bunsen Burners			the cosmos?	

	Lamb's heart dissection			What happens in the process of digestion? What is an enzyme?		
Year 6	DNA, Genes, Inheritance and	Cells and Pathogens	Periodic Table and Chemical Changes	Advanced Light	Advanced Circuits/Science Fair	Science Fair Preparation
	Evolution What is DNA made of? What is inheritance? What is an allele? What is a DNA mutation? What is natural selection?	What is the difference between an animal and plant cell? What are the main disease-causing pathogens? How does the immune system respond to pathogens? What is the difference between a communicable and	What is the structure of an atom? What are the alkali metals (group 1)? What is the reactivity series and displacement reactions? What happens in a neutralization reaction?	How do we see? What happens in reflection/refraction /dispersion? How do we see different colours? Lamb's eye dissection	Preparation How can we make an electromagnet? What is the difference between current and voltage? Preparation for Year 6's Science Fair in Late June/early July	Preparation for Yea 6's Science Fair in Late June/early July for the whole school and parents