

# KINGS COLLEGE GUILDFORD –SCIENCE CURRICULUM

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## Curriculum Intent:

The Science department at Kings College Guildford aims to:

- Deepen the educational experience of learners
- Build a solid foundation of subject knowledge and skills
- Allow students to develop understanding of the world around them and future challenges for society.
- Provide all of our learners with a broad and balanced experience based around the “Big Ideas” in Science.
- Inspire, enthuse and develop collaborative and practical skills
- Enable students to acquire the skills and knowledge necessary to encourage scientific thinking, enquiring minds and curiosity.
- Develop student understanding of the uses and implications of science in the real-world context.
- Develop students’ scientific literacy for today, and for future studies and careers.
- Prepare our learners for future studies and careers.

## Curriculum development:

- Move to 3 year KS3 and 2 Year KS4
- Use 3<sup>rd</sup> Year of KS3 to complete and consolidate KS3 curriculum as well as prepare students for GCSE content through use of appropriate stretch and challenge that form the foundations of the AQA KS4 specification.
- Collaborate with other faculties to sequence units in a way that complements delivery.
- Embedding of Direct Vocabulary Instruction and use of past paper questions into science teaching.
- Make use of homework to embed knowledge through the use of retrieval tasks.

**The science curriculum at Kings College Guildford is in a period of transition, and is likely to see significant redevelopment ahead of next academic year, with a focus on improving the learning journey of students.**

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	Term 1	Term 2	Term 3
Year 7	<b>Introduction to Science</b>	<b>Particle model of matter</b>	<b>Atoms, Elements, Compounds</b>
	Links to KS2	3.5.1, 3.5.2,	3.5.4,
	<b>Cells</b>	<b>Reproduction</b>	<b>Interdependence</b>
	3.8.2	3.9.2, 3.10.2,	3.9.1
	<b>Forces cause Movement</b>	<b>Energy changes, transfers and systems</b>	<b>Electric Circuits</b>
	3.1.1	3.3.2	3.2.1, 3.2.2
Year 8	<b>Reactants and Products</b>	<b>Pure and impure substances</b>	<b>Materials</b>
	3.6.1, 3.6.2, 3.6.3, 3.6.4	3.5.2,	3.6.1, 3.7.4
	<b>Nutrition and digestion</b>	<b>Respiration, photosynthesis and Gas exchange</b>	<b>Skeletal and Muscular</b>
	3.8.4	3.9.3, 3.9.4, 3.8.3, 3.8.4	3.8.1
	<b>Energy resources and heating</b>	<b>Electricity and Electromagnetism</b>	<b>Balanced and unbalanced forced</b>
	3.3.4	3.2.3, 3.2.4	3.1.2, 3.1.3, 3.1.4
Year 9	<b>The periodic table</b>	<b>Energetics</b>	<b>Earth and atmosphere</b>
	3.5.3,	3.6.4,	3.7.1, 3.7.3, 3,7,4
	<b>Inheritance, chromosomes, DNA and Genes</b>	<b>Health</b>	<b>Consolidation, End of Key Stage Assessment</b>
	3.10.1, 3.10.3, 3.10.4	4.3	
	<b>Space</b>	<b>Energy content and cost</b>	<b>Waves</b>
3.7.3	3.3.1, 3.3.3	3.4.1, 3.4.2,3.4.3, 3.4.4	
Year 10	<b>Atomic structure, Periodic Table and Bonding</b>	<b>Chemical Changes and Energy Changes</b>	<b>Rate and Extent of Chemical Changes</b>
	5.1, 5.2, 5.3	5.3, 5.4, 5.5,	5.6,
	<b>Cells biology and Transport System</b>	<b>Health, Disease and Medical Development</b>	<b>Bioenergetics and Ecology</b>
	4.1,4.2,	4.3	4.4, 4.7
	<b>Energy</b>	<b>Structure of Matter and Atomic Structure</b>	<b>Electricity and Magnetism</b>
	6.1	6.3, 6.4	6.2, 6.7
Year 11	<b>Earth and Atmosphere</b>	<b>Chemical Analysis, Industry and Organics</b>	Consolidation, revision, exams

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5.7, 5.9, 5.10	5.7, 5.8, 5.10
<b>Coordination and control</b>	<b>Evolution, Inheritance and Variation</b>
4.5	4.6
<b>Waves</b>	<b>Forces and motion</b>
6.6	6.5

Year 7					Mid - Year	End of Year
Term 1	Sep	Oct	Nov	Dec	Identify the organelles found in plant and animal cells	Explain reproductive processes in plants and animals
Science	Introduction to Science				Be able to explain the function of organelles in animal and plant cells.	Understand the fundamentals of particle theory including state changes
Biology	Cells and organisation					
Chemistry	The Particulate Nature of Matter				Explain the organisation of organisms.	Identify and describe different types of energy
Physics	Forces and motion				Understand the stages involved in a scientific investigation	Describe and explain energy transfers in systems
Term 2	Jan	Feb	Mar	Apr	Understand forces as pushes/pulls that effect the movement/shape of objects	Interpret and construct sankey diagrams to show energy transfers
Biology	Reproduction				Use the relationship linking speed, distance and time.	Explain the difference between atoms, elements, mixtures and compounds
Chemistry	Atoms, Elements, Compounds				Draw and interpret motion graphs	Construct and explain simple food chains.
Physics	Energy changes, transfers and systems				<b>KS2 Consolidation</b>	Recognise and draw simple circuits using symbols
Term 3	May	June	July		Properties and changes of materials	<b>KS2 Consolidation</b>
Biology	Relationships in an Ecosystem				Forces	Electricity
Physics	Electricity				Animals inc humans	Animals inc humans
						properties and changes of materials
						living things and their habitats

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Year 8					Mid- Year	End of Year
Term 1	Sep	Oct	Nov	Dec	Recognise and explain examples of interdependence in ecosystems	Explain conduction, convection, radiation and methods of insulation
Bio	Nutrition and digestion				Understand current, potential difference and resistance in series and parallel circuits	Explain aerobic and anaerobic respiration using equations.
Chem	Chemical reactions				Know the function of each nutrient group and the main stages of digestion.	Know the equation for photosynthesis.
Phy	Energy resources and heating				Understand that atoms are rearranged in chemical reactions.	Understand the process of photosynthesis and the factors that affect it.
Term 2	Jan	Feb	Mar	Apr	Construct simple word equations for reactions.	Explain the difference between a pure and an impure substances.
Bio	Respiration, photosynthesis and Gas exchange				Describe different methods of generating electricity	Understand methods used to separate impure substances
Chem	Pure and impure substances				Know different methods of thermal energy transfer.	Explain how the poles of magnets may interact.
Phy	Electricity and Electromagnetism				<b>KS2 + KS3 Consolidation</b>	Know the key features of electromagnetism.
Term 3	May	Jun	July		Animals inc humans	Know the reactivity series of metals
Biol	Skeletal and Muscular				properties and changes of materials	Know the properties of different materials.
Chem	Materials				Electricity	<b>KS2 + KS3 Consolidation</b>
Phy	Balanced and unbalanced forces				Year 7: Interdependence, Particle theory, Energy	properties and changes of materials
						living things and their habitats
						Animals inc humans
						Year 7: Cells, Energy transfers, particle theory, ecosystems

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Year 9					Mid-Year	End of Year
Term 1	Sep	Oct	Nov	Dec	Explain the features and functioning of the skeletal and muscular systems.	Explain natural selection and evolution.
Bio	Inheritance, chromosomes, DNA and Genes				Explain the effects of balanced and unbalanced forces.	Explain day length and seasons.
Chem	The periodic table				Understand that characteristics are inherited.	Understand and calculate the cost of electricity.
Phy	Space				Know the causes of variation	Calculate power of electrical devices.
Term 2	Jan	Feb	Mar	April	Know the structure of DNA	Understand the properties and uses of waves.
Bio	Health				Understand the arrangement of elements on the periodic table.	Understand how sound is produced, travels and is detected.
Chem	Energetics				Understand the relationship between gravity, mass and weight.	Ability to predict the outcome of reactions and knowledge of different types.
Phy	Energy content and cost				Explain the conditions on different planets.	Construct and interpret energy level diagrams.
Term 3	May	June	July		<b>KS2 + KS3 Consolidation</b>	Explain Earth's structure and atmosphere.
Bio	Consolidation				Animals inc humans	Understand the effect of human activity on the Earth.
Chem	Earth and atmosphere				Evolution and inheritance	Explain causes, spread, treatment and prevention of disease.
Phy	Waves				Earth and Space	Understand behaviour of light
					Year 7: Cells and organisation, Forces, Reproduction, Atoms, Elements, Compounds	<b>KS2 + KS3 Consolidation</b>
					Year 8: Chemical reactions, Forces,	Animals inc humans
						Evolution and inheritance
						light
						Forces
						Year 7: Cells and organisation, atoms, elements,

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compounds, forces and motion

Year 8: Nutrition and digestion, chemical reactions forces, materials

Year 10					Mid- Year	End of Year
Term 1	September	October	November	December	Explain the movement of substances into and out of cells by diffusion, osmosis and active transport	Be able to explain the cause, symptoms and treatment of diseases affecting both plants and animal.
Bio	<b>Cells biology and Transport System</b>				Explain use of microscopes including the purpose of different lenses	Ability to explain the factors that affect the rate of photosynthesis and the importance of the process for all life on Earth.
Chem	<b>Atomic structure, Periodic Table and Bonding</b>				Ability to use models to summarise how the atom has changed over time and the scientific discoveries as well as the scientists involved in the development of the atom.	Ability to explain the effect various biotic and abiotic factors can have on organisms within an ecosystem.
Phy	<b>Energy</b>				Ability to use knowledge of the periodic table and periodicity to predict and explain trends in the elements and their reactions.	Be able to explain various factors that affect reaction rates and how conditions can be altered to speed up or slow down a reaction.
Term 2	January	February	March	April	Be able to explain ionic, covalent and metallic bonding and how the type of bonding links to the properties of the compounds formed.	Be able to explain the carbon, decay and water cycles in detail giving reasons for their importance.
Bio	<b>Health, Disease and Medical Development</b>				Be able to explain ionic, covalent and metallic bonding and how the type of bonding links to the properties of the compounds formed.	Be able to explain how the equilibria of a reversible reaction can be shifted by altering pressure and or temperature due to the energy changes involved or moles of gas present in a reversible reaction.
Chem	<b>Chemical Changes and Energy Changes</b>				Ability to summarise and explain different types of chemical reactions with inclusion of chemical equations.	Ability to link kinetic theory to the particle model of matter and calculate specific latent heat of fusion and or vaporisation during state changes.
Phy	<b>Structure of Matter and Atomic Structure</b>				Ability to explain the energy changes involved in different systems using Sankey diagrams to represent them and efficiency calculations from data.	Able to explain and use the specific heat capacity equation.
Term 3	May	June	July		Be able to explain different energy resources and evaluate the use of each method.	Ability to explain what isotopes are and the radioactivity that result from unstable isotopes.

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Bio	Bioenergetics and Ecology	Ability to explain the penetration power, dangers and uses of radioactivity and calculate half life
Che	Rate and Extent of Chemical Changes	Ability to explain the magnetic field produced around bar magnets, wires, solenoids and electromagnet.
Phy	Electricity and Magnetism	Be able to explain the nature of magnetism and electromagnetism.

Year 11					Mid Year	End of Year
Term 1	September	October	November	December	Be able to explain the structure and function of the human endocrine and nervous system.	Understand the importance of variation and how it results from genes and environment.
Biology	Coordination and control				Understand the role of negative feedback in maintaining constant conditions.	Be able to comprehensively explain the theory of evolution brought about by the mechanism of natural selection.
Chemistry	Earth and Atmosphere				Understand the importance of homeostasis and be able to describe specific examples (blood sugar, water balance, temperature)	Understand how organisms are classified and be able to describe systems of classification.
Physics	Waves				Be able to comprehensively explain the changes in the Earth's atmosphere that have taken place over time and continue to take place as a result of human impact on the environment.	Understand the processes involved in producing potable water.
Term 2	January	February	March	April	Evaluate the effects of different atmospheric pollutants.	Be able to define pure and impure substances and understand formulations as useful mixtures developed by industry.
Biology	Evolution, Inheritance and Variation				Be able to explain to properties and behaviour of both transverse and longitudinal waves.	Ability to comprehensively explain how various separations can be used and when to use them.
Chemistry	Chemical Analysis, Industry and Organics				Understand the sources, uses, properties, dangers and detection of EM waves.	Understand the purpose of LCAS and be able to evaluate them.
Physics	Forces and motion					Develop understanding of forces and motion with a view to being able to draw and interpret motion graphs and use newtons laws to explain motion.
Term 3	May	June	July			Ability to distinguish between and explain vectors and scalars.
Biology	Exams					
Chemistry						
Physics						

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## 5 Year Curriculum Map: Biology

Area	Big Idea	7	Area of Specification	8	Area of Specification	9	Area of Specification	10	Area of Specification	11	Area of Specification
Organisms	Cells are living	Cells	3.8.2			Cell Biology and Inheritance	3.10.4 & 4.1				
		Cell structure Specialised cells				Cell structure Cell division Transport in cells	4.1.1 4.1.2 4.1.3				
	Bodies are systems			Tissues & organs	3.8.2	Organisation & Systems	3.8 & 4.2	Homeostasis and response	4.5		
				Gas exchange	3.8.3	Principles of organisation Animal tissues, organs and organ systems	4.2.1 4.2.2	Homeostasis  Hormonal coordination in humans	4.5.1  4.5.3		
				Cell Organisation Digestive	 3.8.4						

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			System			
<b>Ecosystems</b>	<b>Organisms are independent</b>	<b>Interdependence</b> 3.9.1 Feeding relationships Competition  Biotic & abiotic factors			<b>Infection and response</b> 4.3 Communicable diseases 4.3.1 <b>Ecology</b> 4.7 Adaptations, interdependence and competition 4.7.1 Biodiversity and the effect of human interaction on ecosystems 4.7.3	
	<b>Ecosystems recycle resources</b>		<b>Respiration</b> 3.9.3 Aerobic respiration Anaerobic respiration  Photosynthesis 3.9.4		<b>Bioenergetics</b> 4.4 Photosynthesis 4.4.1 Respiration 4.4.2  Organisation of an ecosystem 4.7.2 Plant tissues, organs and systems 4.2.3	
<b>Genes</b>	<b>Characteristics are inherited</b>	<b>Human Reproduction</b> 3.10.2  Sexual & asexual		<b>Genetics</b> 3.1 & 4.6  The development of understanding 4.6.3		<b>Inheritance &amp; variation</b> 4.6  Reproduction 4.6.1

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	Menstrual cycle		ng of genetics and evolution		
	Embryo development		Classification of living organisms	4.6.4	Variation and evolution 4.6.2
<b>Species show variation</b>		<b>Life Diversity</b> 3.10.1			<b>Evolution</b> 4.6.2
		Variation 3.10.1			The development of understanding of genetics and evolution 4.6.3
		selective breeding Natural selection 3.10.3			Classification of living organisms 4.6.4

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5 Year Curriculum Map: Chemistry											
Area	Big Idea	7	Area of Specification	8	Area of Specification	9	Area of Specification	10	Area of Specification	11	Area of Specification
<b>Matter</b>	<b>Structure determines properties</b>	<b>Particle model of matter</b>	<b>3.5</b>	<b>Pure substances</b>	<b>3.5.2</b>	<b>Atomic structure and the periodic table</b>	<b>3.5.3 &amp; 5.1</b>	<b>Structure &amp; bonding</b>	<b>5.2</b>	<b>Carbon chemistry</b>	<b>5.7</b>
		Particle model	3.5.1	Elements & compounds	3.5.4	Model of the atom, symbols, relative atomic mass, electronic charge and isotopes	5.1.1	Chemical bonds, ionic, covalent and metallic	5.2.1	Carbon compounds as fuels and feedstock	5.7.1
		Mixtures & solutions	3.5.2	Physical properties	3.5.3	The Periodic Table	5.1.2	bonding and structure & properties of substances	5.2.2	Identification of common gases	5.8.2
						Purity, formulations and chromatography	5.8.1	Structure and bonding of carbon	5.2.3		
								Electrolysis	5.4.3		

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	<b>Reactions rearrange matter</b>	<p><b>Changing Substances</b>      3.6</p> <p>Chemical &amp; physical changes      3.5.3</p> <p>pH scale &amp; neutralisation      3.6.2</p> <p>Types of reaction      3.6.4</p>	<p><b>Reactants &amp; products</b>      3.6</p> <p>Acid reactions      3.6.2</p> <p>Metals &amp; Non-metals      3.6.1</p> <p>Chemical energy      3.6.3</p>	<p><b>Matter &amp; Energy Changes</b>      3.5, 3.6, 5.5 &amp; 5.6</p> <p>Exothermic and endothermic reactions      5.5.1</p> <p>Rate of reaction      5.6.1</p>	<p><b>Rate of reaction &amp; chemical changes</b>      5.6 &amp; 5.4</p> <p>Reaction rates      5.6.1</p> <p>Reversible reactions and dynamic equilibrium      5.6.2</p> <p>Reactivity of metals      5.4.1</p> <p>Reactions of acids      5.4.2</p>	<p><b>Quantitative chemistry</b>      5.3</p> <p>Chemical measurements, conservation of mass and chemical equations      5.3.1</p> <p>Use of amount of substance in relation to masses of pure substances      5.3.2</p>
	<b>Earth systems interact</b>	<p><b>Earth Structure</b>      3.7.1</p> <p>Earth Processes &amp; Potable water</p> <p>Climate      3.7.3</p>	<p><b>Using resources</b>      3.7.4 &amp; 5.10</p> <p>Using the Earth's resources and obtaining potable water      5.10.1</p> <p>Life cycle assessment and recycling      5.10.2</p>	<p><b>Chemistry of the Atmosphere</b>      5.9</p> <p>The composition and evolution of the Earth's atmosphere      5.9.1</p> <p>Carbon dioxide and methane as greenhouse gases      5.9.2</p>		

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						Common atmospheric pollutants and their sources	5.9.3
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## 5 Year Curriculum Map: Physics

Area	Big Idea	7	Area of Specification	8	Area of Specification	9	Area of Specification	10	Area of Specification	11	Area of Specification
<b>Forces</b>	<b>Forces predict motion</b>	<b>Forces</b>	<b>3.1</b>	<b>Forces cause movement</b>	<b>3.1</b>	<b>Forces</b>	3.1 & 6.5			<b>Forces and Motion</b>	3.1 & 6.5.4
		Balanced or unbalanced	3.1.3	Speed	3.1.1	Forces and their Interactions	6.5.1			Describing motion along a line	6.5.4.1
		Friction		Motion graphs		Work done & energy transfer	6.5.2			Forces, accelerations and Newton's Laws of motion	6.5.4.2
		Density & pressure	3.1.4			Forces & elasticity	6.5.3			Forces & breaking Momentum (HT)	6.5.4.3 6.5.5 (HT)
	<b>Fields produce forces</b>			<b>Gravity</b>	3.1.2			<b>Magnetism &amp; Electromagnetism</b>	3.2, 3.3 & 6.7		
				Density & pressure	3.1.4			Magnetic Force	6.7.1		
				<b>Universe</b>	<b>3.7.2</b>			Current & magnetism			

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<b>Energ y</b>						Motor effect 6.7.2	
		<b>Energy</b> 3.3		<b>Particle model of matter</b> 3.1, 3.3 & 6.3			<b>Energy</b> 3.3 & 6.1
		Energy transfers 3.3.2		Change of state & particle model of matter 6.3.1			Energy changes and stores in a system 6.1.1
	Work 3.3.3		Internal energy and energy transfers 6.3.2			Conservation and dissipation of energy 6.1.2	
				Particle model and pressure 6.3.3			National and global energy resources 6.1.3
	<b>Electricity transfers energy</b>	<b>Electric Circuits</b> 3.2	<b>Electrical Energy</b> 3.2 & 3.3			<b>Electricity</b> 3.2, 3.3 & 6.2	
		Voltage & resistance 3.2.1	Electricomagnets 3.2.3			Current, potential difference and resistance 6.2.1	
		Current 3.2.2	Magnetism 3.2.4			Series and parallel circuits 6.2.2	
			Energy costs 3.3.1			Domestic uses & safety 6.2.3	
						Energy transfers 6.2.4	
	<b>Radiation transfers energy</b>		<b>Light</b> 3.4.2	<b>Waves</b> 3.4 & 6.6		<b>Waves</b> 3.4 & 6.6	<b>Atomic Structure</b> 3.5, 3.6 & 6.4
			Reflection	Sound 3.4.1		Waves in air, fluids & solids 6.6.1	Atoms and isotopes 6.4.1

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			Refraction	Wave effects 3.4.3	Electromagnetic Waves 6.6.2	Atoms and nuclear radiation 6.4.2
				Wave Properties 3.4.4		

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KS3 Brain banks to be developed by end of summer term 2 in teams ready for September 2020

Physics	COL & ORT	Chemistry	FOR & IMI	Biology	GAR & MOU
<b>3.1 Forces</b>	KS3 - Forces, types, weight, mass, force fields, changing shape/speed,	<b>3.5 Matter</b>	Year 4 - States of Matter	<b>3.8 Organisms</b>	
3.1.1 Speed	No Brain Bank	3.5.1 Particle model	No Brain Bank	3.8.1 Movement	No Brain Bank
3.1.2 Gravity	No Brain Bank	3.5.2 Separating mixtures	No Brain Bank	3.8.2 Cells	Brain Bank Combined with Muscles and Skeleton, Microscopes, organ systems and joints
3.1.3 Contact forces	Year 5	3.5.3 Periodic table	No Brain Bank	3.8.3 Breathing	No Brain Bank
3.1.4 Pressure	No Brain Bank	3.5.4 Elements	No Brain Bank	3.8.4 Digestion	No Brain Bank
<b>3.2 Electromagnets</b>		<b>3.6 Reactions</b>		<b>3.9 Ecosystems</b>	
3.2.1 Voltage and resistance	Year 6 Electricity - (Unlimited Extra Download - £6.24 p/m)	3.6.1 Metals and non-metals	No Brain Bank	3.9.1 Interdependence	No Brain Bank
3.2.2 Current	Year 4 Electricity - (Unlimited Extra Download - £6.24 p/m)	3.6.2 Acids and alkalis	No Brain Bank	3.9.2 Plant reproduction	Year 5 Knowledge Organiser - Plant and human reproduction both on same under living things and their habitats
3.2.3 Electromagnets	No Brain Bank	3.6.3 Chemical energy	No Brain Bank	3.9.3 Respiration	No Brain Bank
3.2.4 Magnetism	Year 3 - Magnets	3.6.4 Types of reaction	No Brain Bank	3.9.4 Photosynthesis	No Brain Bank
<b>3.3 Energy</b>		<b>3.7 Earth</b>		<b>3.10 Genes</b>	
3.3.1 Energy costs	No Brain Bank	3.7.1 Earth structure	No Brain Bank	3.10.1 Variation	No Brain Bank
3.3.2 Energy	No Brain Bank	3.7.2	No Brain Bank	3.10.2	Year 5 Knowledge Organiser - Plant and human

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transfer		Universe		Human reproduction	reproduction both on same under living things and their habitats
3.3.3 Work	No Brain Bank	3.7.3 Climate	Year 2 - the environment / Geography - Climate change no year/KS	3.10.3 Evolution	Evolution and Inheritance - year 6 Knowledge Organise (unlimited extra download - £6.24 p/m)
3.3.4 Heating and cooling	No Brain Bank	3.7.4 Earth resources	No Brain Bank	3.10.4 Inheritance	Evolution and Inheritance - year 6 Knowledge Organise (unlimited extra download - £6.24 p/m)
<b>3.4 Waves</b>					
3.4.1 Sound	Year 4 - Sound			Introduction to Science	✓
3.4.2 Light	Year 6 - Light				
3.4.3 Wave effects	No Brain Bank				
3.4.4 Wave properties	No Brain Bank				

## Blueprint Samples

- To be evaluated for use by subject teams ready for discussion in next department meeting on 18<sup>th</sup> of May
- Webinar to be arranged with Tony Sherbourne following this meeting.
- Blueprint samples to be trialled with groups of students during summer term as a tool for “Plugging gaps” if circumstances allow with a view to use in September with Year 7 cohort.

## Super Science

- To be developed ahead of September by GAR with support of FOR to include KS2 consolidation topics.