	Science Curriculum Map						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Year 1/2 A	Everyday Materials	Everyday Materials	Animals including humans	Animals including humans – naming and classifying	Seasonal Changes	Plants	
	 Key Concepts: tell the difference between an object and the material from which it is made identify and name a variety of everyday materials, describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties 		 Key Concepts: name some common animals including fish, amphibians, reptiles, birds and mammals identify and name carnivores, herbivores and omnivores describe and compare some common animals identify, name, draw and label the basic parts of the human body say which part of the body is associated with each sense EXTRA CURRICULAR- EXPLORER DOME		 Key Concepts: Seasonal Changes observe changes across the four seasons observe and describe weather associated with the seasons describe how day length varies with the seasons Plants: Identify and name a variety of common wild and garden plants Identify and describe the basic structure of a variety of common flowering plants, including trees (including leaves, flowers (blossom), petals, fruit, roots, bulb, seed, trunk, branches, stem EXTRA CURRICULAR- OVER BECK'S 		

Year 1/2 B	Uses of Everyday Materials and their properties.	Uses of Everyday Materials and their properties	Living things and their habitats	Animal including humans	Plants	Living things and their habitats
	 Key Concepts: identify and a suitability of a materials, for find out how objects made materials can squashing, be stretching. distinguish be and the mater made identify and reveryday materials describe the properties of materials compare and variety of every the basis of t properties 	compare the a variety of everyday particular uses the shapes of solid e from some be changed by ending, twisting and etween an object trial from which it is name a variety of terials simple physical a variety of everyday group together a eryday materials on heir simple physical	Key Concepts: Living things and their - explore and of differences by are living, de- have never by - identify that r in habitats to suited and de habitats prov needs of different and plants, ar on each othe Animals including hur - notice that ar humans, have grow into add - find out about basic needs of humans, for s and air) - describe the humans of ex right amounts food, and hys	ir habitats: compare the etween things that ad, and things that een alive most living things live which they are escribe how different ide for the basic erent kinds of animals nd how they depend r mans: nimals, including e offspring which ults at and describe the of animals, including survival (water, food importance for cercise, eating the s of different types of giene. - EXPLORER DOME	Key Concepts: Plants: - observe and and bulbs gro - find out and one need water, I temperature healthy. - Living things and the - identify that r in habitats to suited and de habitats prov needs of different and plants, a on each othe - identify and r plants and ar habitats, inclu- - describe how food from platers and ar habitats, using simple food of and name different food. Extra Curricular Opport	describe how seeds ow into mature plants describe how plants ight and a suitable to grow and stay ir habitats most living things live which they are escribe how different ide for the basic erent kinds of animals ind how they depend ir name a variety of nimals in their uding micro- habitats and other g the idea of a chain, and identify ferent sources of

Year 3/4	Rocks	Animals	Light	Forces and	Plants	Plants
А		including		Magnets		
		Humans				
	Key Concepts: Rocks: - rocks can be group basis of their appears physical processes - fossils are formed wit - soils are made from matter Animals Including - animals, inclu- the right type nutrition; the own food an- from what th - humans and have skeletor support prot- movement	ed together on the ance and simple when things that have hin rock rocks and organic g Humans: uding humans, need es and amounts of y cannot make their d they get nutrition ey eat some other animals ns and muscles for ection and	Key Concepts: Lights: - dark is the ab - light is needer things - light is reflect - light travels the materials and - shadows are light from a light from a light from a light blocked by al - the size of she according to and the relating object and the - light from the dangerous ar protect the effect - push and pult things start and - different surfat things move - some forces re between two magnetic ford distance - magnets attration - magne	besence of light and in order to see ted by materials hrough some a not others formed when the ights source is in opaque object adows change the size of the object ive positions of the be light source and there are ways to yes I forces can make and stop moving aces affect how easily over them need contact objects but ces can act at a act some materials rs e two poles act or repel each	 Key Concepts: flowering pla the following stem/trunk, le each part per for the plant plants need a nutrients from life and grow amounts vary investigate th is transported explore the p in the life cyc plants, includ formation and 	nts generally have parts: roots, eaves and flowers forms a specific role air, light, water, n soil and room for th – the precise from plant to plant ne way in which water d within plants part that flowers play le of flowering ling pollination, seed d seed dispersal.

	EXTRA CURRICULAR- EXPLORER DOME	

Year 3/4 B	Electricity	States of matter	Sound	Living things and Habitats- Classification	Animals including Humans- Digestive system	Living Things and Habitats- Changing environments
	 Key Concepts: Electricity: an electric circuit of conducting ma a complete, close for electricity to f the basic compo- circuit are wires, buzzers a switch opens and some materials of electricity to pass insulators some materials of pass and these and some common and electricity mains electricity States of Matter: materials carding and the rates of econdensation temperature evaporation play a part in where water 	is a continuous loop aterials ed circuit is needed low nents of an electrical bulbs, switches and nd closes a circuit lo not allow s and these are called lo allow electricity to re called conductors ppliances run on can be dangerous a be solids liquids or inge state with cooling evaporation and n are affected by and condensation the water cycles circulates between	 Key Concepts: Sounds: sounds are m vibrating vibrations fro through a me gases) to the the pitch of a the features of produced it the volume of on the streng that produce sounds get fa from the sou Living things and Hal species dependent living things variety of way classification help group, i variety of livin and wider en 	hade by something om sounds travel edium (solids, liquids, ear. a sound depends on of the object that of a sound depends gth of the vibrations d it ainter as the distance nd source increases. Ditats: end on one another vironment to survive can be grouped in a ys keys can be used to dentify and name a ng things in the local wironment - EXPLORER DOME	Key Concepts: Animals including hu - the digestive comprised of each has a sp - teeth in anim to their natur - teeth can be to be cared f - living things food in the n chains and for illustrate this Living things and the - species depe and their env - environments can sometim living things	mans: a system in humans is f several parts and becial function hals differ according ral diet damaged and need for rely on each other for atural world; food bod webs can relationship ir Habitats: end on one another fromment to survive s can change and this es pose dangers to

	the Earth's oceans, atmosphere and land					
Year 5/6 A	Forces	Earth and Space	Properties and Changing Materials	Properties and Changing Materials	Living Things and Habitats- Life cycles	Animals including humans growth
	Key Concepts: Forces: - unsupported the Earth bec gravity acting and the fallin - air resistance and friction a surfaces - air resistance and friction s - some mechan levers, pulley smaller force effect Earth and Space: - the Sun, Eart approximatel - the sun is a s our solar syst - the Sun - a moon is a c orbits a plane - Earth has one Moon's orbit	objects fall towards cause of the force of g between the Earth g object e, water resistance ct between moving , water resistance low moving objects nisms, including s and gears allow a to have a greater h and moon are y spherical bodies tar at the centre of em d other planets orbit celestial body that et e Moon and the gives rise to the	Key Concepts: Properties and Chang - Some solid n in liquid to for others will no - Substances of from a solution - Mixtures can through filter evaporating - Dissolving, m state are reve - Some changer formation of this kind of c reversible, in associated w action of acid soda EXTRA CURRICULAR	ging Materials: naterials will dissolve form a solution and ot an be separated on be separated ring, sieving and nixing and changes of ersible changes es result in the new materials and hange in not usually cluding changes ith burning and the d on bicarbonate of - EXPLORER DOME	Key Concepts: Living Things and Ha - All living thir with different born, grow, r - There are diff cycles of mar insects and b Animals including hu - Describe the develop to o	bitats- Life cycles ngs have a life cycle stages – they are eproduce and die. ferences in the life nmals, amphibians, irds mans growth changes as humans Id age

	 phases of the moon we observe on Earth the Earth's rotation about its axis explains day and night and the apparent movement of the Sun across the sky 					
Year 5/6 B	Living Things and their Habitats Classification	Animals including Humans- Circulatory system	Light	Electricity	Evolution and Inheritance	Animals including Humans- Diet health and drugs
	Key Concepts: Living Things and their Habitats Classification: - Living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.		 Key Concepts: Light light travels in straight lines we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes shadows have the same shape as the objects that cast them 		 Key Concepts: Evolution and Inheritance living things have changed over time fossils provide information about living things that inhabited the Earth millions of years ago living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents 	
	 Animals including Humans- Circulatory system Nutrients and water are transported via the circulatory system within animals, including humans The circulatory system includes the heart, lungs, arteries, veins and blood. Know the function of the heart, blood and blood vessels (The heart is the pump; the blood 		 Electricity Energy is transferred from the power supply to the components of a circuit The brightness of a lamp or the volume of a buzzer is associated with the number and voltage of cells used in the circuit Recognised symbols are used to represent a simple circuit in a diagram 		 identical to their parents characteristics of offspring can be inherited or non-inherited adaptation may lead to evolution animals and plants are adapted t suit their environment in differen ways physical and behavioural characteristics of plants and animals are related to their survival or extinction 	

vessels (arteries and veins) contain	- Diet health and drugs
the blood and the blood has	- Diet, exercise, drugs and lifestyle
different components which,	have an impact on the our bodies
between them, transport oxygen,	function
nutrients and water around the	
body)	EXTRA CURRICULAR- VET/DOCTOR
	VISIT
- EXTRA CURRICULAR- Dissection	