BOYTON		Boyton Science Overview							
		Autumn 1 Civilisation and Democracy	Autumn 2 Culture	Spring 1 All Around the World	Spring 2 Exploration and Discoveries	Summer 1 Natural Wonder	Summer 2 Community		
EYFS ((One year	What and who's	What's that sound?	How do things	How do we get there?	How does it grow?	What's over there?		
rolling p	programme)	around me?		change?					
		Animals, including humans		Materials		Plants / Seasonal changes			
		and senses.	ils and parts of the body fy animals in different	natural materials. (EY • Explore collection and/or different prop • Talk about the dif and changes they not	s of materials with similar perties(EY) ferences between materials cice (EY) s of materials with similar	 EYFS) Understand the key and an animal. (UTV Explore the natural observations and dr plants. (UTW ELG EV Understand the efferent world around Understand some in the natural world ar 	world around them, making awing pictures of animals and		
KS1	Area of	Animals, including humans		Everyday Materials / Uses of everyday		Plants / Seasonal changes			
Cycle A focus Plymouth Science Ur		Animals, Humans and Staying Healthy		materials Material World		Looking after Plants			
	NC content	 I can describe the importance for humans of exercise, eating the right amounts if different types of food and hygiene. I can identify and name a variety of common animals that are carnivores, herbivores and omnivores. (A.Y1) I can identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (A.Y1) LO: I notice that animals including humans have offspring which grow into adults. (A.Y2) LO: I notice that animals including humans have offspring which grow into adults. (L.Y2) 		I can distinguish between an object and the material from which it is made. I can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. I can describe the simple properties of a variety of everyday materials. I can compare and group together a variety of everyday materials on the basis of their simple properties.		Identify and name a variety of common wild and green plants, including deciduous and evergreen trees Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy To observe changes across four seasons. To observe and describe weather associated with the seasons and how day length varies.			
KS1	Area of Animals, including humans / Living Things		Everyday Materials / Uses of everyday		Plants / Seasonal changes				
Cycle B	focus Plymouth Science Unit	and their Anima			terials g Materials	How does yo	ur garden grow?		
	NC content	Pupils should be taught to: To identify and name a var including fish, amphibians, mammals. To identify and name a var that are carnivores, herbive	iety of common animals reptiles, birds, and iety of common animals	To distinguish between an o which it is made. To identify and name a vari including wood, plastic, glas To describe the simple prop everyday materials.	ss, metal, water and rock.	plants including deciduous an	uding trees. y of common wild and garden		

of common and mamm. To explore a things that a never been To identify a which they habitats pro- kinds of ani on each oth To identify a in their hab To notice to into adults. To find out	that most living things live in habitats to are suited and describe how different ovide for the basic needs of different mals and plants, and how they depend er. and name a variety of plants and animals itats, including microhabitats. nat animals have offspring which grow about and describe the basic needs of	To compare and group together a variety of everyday materials on the basis of their simple properties. To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	
	about and describe the basic needs of luding humans, for survival (water, food		

	ALLER A	Boyton Science Overview – Chestnuts							
BOYTON		Autumn 1 Civilisation and Democracy	Autumn 2 Culture	Spring 1 All Around the World	Spring 2 Exploration and Discoveries	Summer 1Summer 2Natural WonderCommunity			
LKS2 Cycle A	Area of focus / Plymouth Science Unit	Plants		Rocks Archaeology		Light and Sound Movie Magic			
Science UnitNurturing NatureNC contentTo identify and describe the functions of different parts of a flowering plant. To explore the requirements of plant life and growth. To investigate the way in which water is transported within plants To explore the part that flowers play in the lifecycle of flowering plants including pollination, seed formation and seed dispersal. Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group. Identify and name a variety of living things in the environment. Recognise that environments can change and this can sometimes pose dangers to living things.		To compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. To describe in simple terms how fossils are formed when things that have lived are trapped within rock. To recognise that soils are made from rock and organic matter. Identify that humans and some other animals have skeletons for support, protection and movement Identify different teeth in humans and name their functions. Compare teeth of carnivores and herbivores, and suggesting reasons for differences		To recognise we need light in order to see things and that dark is the absence of light Light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect your eyes. Recognise that shadows are formed when light from a source is blocked by an opaque object. Find patterns in the way that the shadows change. To identify how sounds are made, associating some of them with something vibrating. (Vibration stations) Recognise that vibrations from sounds travel through a medium to the ear. (String phones) Find patterns between pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sound gets fainter as the distance from the sound source increases					
LKS2 Area of focus Cycle B Plymouth Science Unit		Animals including humans Amazing Human Body		States of Matter From Amazon to Antarctica		Forces and Magnets How Stuff Works			
	NC content	skeletons and muscles f movement. To identify that animals right types and amount cannot make their own what they eat. To describe the simple f in humans To identify different ter functions To know how top keep To construct and interp	and some other animals have for support, protection and , including humans, need the of nutrition, and that they food; they get nutrition from functions of the digestive system eth in humans and name their my teeth healthy oret a variety of food chains redators and prey by examining	Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when the are heated or cooled, and measure or research the temperature at which this happens in degrees Celsi Identify the part played by evaporation and condensation in the water cycle and associate the r of evaporation with temperature. Recognise that living things can be grouped in a var of ways. Explore and use classification keys to help group, identify and name a variety of things in their local a wider environment. Recognise that environments can change and that the can sometimes pose dangers to living things. Construct and interpret a variety of food chains, identifying producers, predators and prey.		Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simp series circuit Recognise some common conductors and insulators, and associate metals with being good conductors. Compare how things move on different surfaces.			

				Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.
UKS2	Area of focus/	Properties and changes of materials	Living Things and their habitats	Forces
Cycle A	NC	Earth and Space	Living and Growing	Engineering
- ,	Plymouth	Out of this World		0 0 0
	Science Unit			
	NC content	Compare and group together everyday materials based on their properties, including hardness, solubility, transparency, conductivity and response to magnets. Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution. Use knowledge of solid, liquid and gas to decide how mixtures might be separated including through filtering, sieving and evaporation. Give reasons based on evidence from comparative tests for the particular uses of everyday materials including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials and this kind of change is not usually reversible including changes associated with burning and the action of acid on bicarbonate of soda. Describe the movement of the Earth and other planets, relative to the sun in the solar system. Describe the Sun, Earth and Moon as approximate spherical bodies. Use Earth rotation to explain day and night due to the	Describe the differences in life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals Describe the changes as humans develop to old age Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. (The act of gravity on our lives) Identify the effects of air resistance, water resistance and friction, which act between moving surfaces. Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.
		apparent movement of the sun across the sky.		
UKS2	Area of focus/	Light	Evolution and Inheritance	Animals including Humans
Cycle B	Plymouth Science Unit	Electricity Bright Sparks	Following Darwin's Footsteps	Healthy Body, Healthy Mind
	NC content	Recognise that light appears to travel in straight lines.	Recognise that living things have changed over time	Identify the main parts of the human circulatory system
		Use the idea that light travels in straight lines to explain	and that fossils provide information about living things	and describe the function of the heart, blood vessels and
		that objects are seen because they give out or reflect	that inhabited the Earth millions of years ago	blood.
		light into the eye	Recognise that living things produce offspring of the	Describe the ways in which nutrients and water and
		Explain that we see things because light travels from light sources to our eyes or from light sources to	same kind, but normally offspring vary and are not identical to their parents	transported within animals including humans. Recognise the impact of diet, exercise, drugs and lifestyle
		objects and then to our eyes	Identify how animals and plants are adapted to suit	on the way their body's function.
			i uchting now animals and plants are adapted to sult	on the way then body stunction.
			their environment in different ways and that	Understand the term 'food group' and 'halanced diet'
		Use the idea that light travels in straight lines to explain	their environment in different ways and that adaptation may lead to evolution	Understand the term 'food group' and 'balanced diet'.
		Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that	their environment in different ways and that adaptation may lead to evolution	Understand the importance of a balanced diet.
		Use the idea that light travels in straight lines to explain		

tł	ne loudness of buzzers and the on/off position of
SV	witches.
A	associate the brightness of a lamp or the volume of a
b	uzzer with the number and voltage of cells used in the
ci	ircuit
C	ompare and give reasons for variations in how
co	omponents function, including the brightness of bulbs,
	he loudness of buzzers and the on/off position of
	witches
	lse recognised symbols when representing a simple
	ircuit in a diagram