Science MTP: Sequence of lessons				Animals in	cluding Humans	Year 3	ocus Scientist: Diane France		
			(Animal Nutr	ition & Skeletons)					
Pupils should be taught to: Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food: they get nutrition from what they eat				Key vocabulary Nutrition Diet Vitamins, minerals, fats, proteins and carbohydrates Functions of skeletons – protect, support and aid movement Muscle Types – skeletal, cardiac and smooth.					
			Endoskeleton Exoskelton						
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7	Lesson 8		
To know that animals cannot make their own food. To be able to record using drawings.	To know that humans, need the right amounts and types of food. To be able to report on findings from enquiries.	To know that humans, need the right amounts and types of food. To be able to set up a fair test.	To know that animals, including humans, need the right amounts and types of food. To be able to report on findings from enquiries.	To know that humans and some animals have skeletons and muscles for support, protection and movement.		To identify and granimals that have skeleton, an interskeleton (endosk and an external s (exoskeleton). To sort and classi	and some animals have skeletons and muscles for support, protection and movement. To be able to record data		
Starting Point: Link to Year 2 Previous Learning. How do living things get their food?	Types of Food - Humans Why do humans need to eat different foods?	Investigating Fatty Foods What food contains the most fat?	Types of Food - Animals Which foods do animals need in order to survive?	Functions of Skeleton Why is the skeleton important?	Do bones grow, as we get	Skeleton Types Do all animals had bones?	Muscles What is the function of muscles?		

Science MTP: Sequence of lessons			Rocks, Fossils and Soils			Year 3	Focus Scientist: lan S	tewart Mary Anning
Reference to the Program Pupils should be taught to Compare and group toget properties Describe in simple terms Recognise that soils are m	Key vocabulary Names of rocks – Chalk, limestone, granite, basalt, sandstone, flint, slate, shale, marble Types of rock – Sedimentary, metamorphic, igneous Types of minerals – Calcite, feldspar, topaz, diamond, talc, corundum Properties of rocks – Hard/soft, permeable/impermeable Processes – Heat, pressure, erosion, transportation, deposition, melt, solidify Size of rocks – Grain, pebbles Rock describing words – Crystals, layers Early areas of land – Gondwana, Pangea Land formations – Plates, volcanoes, mountains, va							
Lesson 1 To be able to compare and group together different kinds of rocks on the basis of their appearance. To be able to make careful observations.	Lesson 2 To be able to compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	To be able to compare and group together different kinds of rocks on the basis of their appearance and	Lesson 4 To be able to compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. To be able to set up simple comparative tests.	in simple terms how fossils are formed when things that have lived	Lesson 6 To be able to re that soils are marker. To be able to se simple comparatests. To be able to prinformation in a branching key.	ecognise To ade tha organic roc et up To ide soil	make comparisons and ntify the features of	Lesson 8 To be able to recognise that soils are made from rocks and organic matter. To be able to set up simple comparative tests. To be able to measure using beakers.
Rocks Appearance What do different rocks look like?	Types of Rocks How were different rocks formed?	How are	Permeability Which rock is the most permeable?	Fossils – Make links to Mary Anning. How are fossils made?	Soil What are soils r from? What are different types	made Wh	l at CHPA nat type of soil can be and at CHPA?	Soil Absorbency How much water do different soils absorb?

Science	Forces and Magnets	Year 3	Focus Scientist:	James Clerk Maxwell			
Reference to the Programme of Study 2 Pupils should be taught to: Compare how things move on different so Notice that some forces need contact be Observe how magnets attract or repel each compare and group together a variety of magnet, and identify some magnetic	Key vocabulary Magnets – bar and horseshoe Attract, repel North and south poles Magnetic						
Predict whether two magnets will attract or repel each other, depending on which poles are facing.				Magnetic field Lesson 4	Lesson 5		Lesson 6
Lesson 1 To be able to compare how things move on different surfaces. To be able to set up a simple fair-test.	To be able to compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. To be able to use results to draw simple conclusions.	To be able to compare group together a varie everyday materials on of whether they are at to a magnet and iden magnetic materials. To be able to provide explanation of finding	ety of n the basis ttracted ntify some	To be able to notice that some forces need contact between two objects, but magnetic forces can act at a distance. To be able to make systematic and careful observations.		it magnetic	To be able to predict whether two magnets will attract or repel each other, depending on which poles are facing. To be able to describe magnets as having two poles.
Different Surface Types How does the type of surface on the table affect the speed of the tub travelling on it?	Magnetic Materials Which materials are attracted to magnets?	Attracting Magnets Which materials can n attract through?	magnets	Strength of Magnets Which magnet is the strongest?	Making a Comp How do I create magnet?		Exploring – Attracting & Repelling Which magnet poles attract and which repel?

	Science MTP: Sequence of lesson	Plants (Plant Nu	trition & Reproduction)	Year 3 Focus Sci	entist: Jan Ingenhousz			
Reference to the Programme o	f Study 2014		Key vocabulary		 			
Identify and describe the functions of different parts of plants; roots, stem, leaves and flowers. Explore the requirements of plants for life and growth (air, light, nutrients from soil and room to grow) and how they vary from plant to plant. Investigate the ways in which water is transported within plants. Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal			Trees - deciduous, evergreen, ash, birch, beech, rowan, common lime, oak, sweet chestnut, horse chestnut, apple, willow, sycamore, fir, pine, holly, etc Wild flowering plants - cleavers, coltsfoot, daisy, dandelion, garlic mustard, mallow, mugwort, plantain, red clover, self heal, shepherd's purse, sorrel, spear thistle, white campion, white deadnettle and yarrow. Garden plants - crocus, daffodil, bluebells, etc Parts of plants - roots, branch, trunk, stalk, leaf, flower, petal, seeds, bulbs and twigs Parts of a flower - petal, stamen (anther + filament), carpel (stigma + style + ovary + ovule) Processes - pollination, fertilisation, germination					
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 8		
To be able to identify and describe the different functions of a plant.	To be able to identify and describe the function of the roots.	To be able to investigate the ways in which water is transported within plants. To be able to identify and describe the function of the stem.	To be able to identify and describe the function of the leaves. To be able to gather and record data.	To be able to identify and describe the function of the flower.	To be able to identify and describe the function of the flower.	To be able to explore the requirements of plants fo life and growth (air, light, water, nutrients from soil To understand what make a fair test.		
Functions of a Plant Is a plant a living thing, and if it is, how can we prove this?	Roots What do the roots of plants look like close up?	Stem – Water Transportation How can we prove that stems transport water?	Leaves What happens when we deprive the leaf from light?	Flower What do the parts in a flower do?	Flower Pollination How are the different flow pollinated?	Plant Survival Vers What do plants need to grow and survive?		

Science MTP:	Light		Year 3	Focus So	cientist: James Clerk Maxwell		
			Light a				
Pupils should be taught to: Recognise that they need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect their eyes Recognise that shadows are formed when the light from a light source is blocked by a solid object Find patterns in the way that the sizes of shadows change.				Key vocabulary Simple comparisons: dark, dull, bright, very bright Comparative vocabulary: brighter, duller, and darker Superlative vocabulary: brightest, dullest, and darkest Opaque, translucent, transparent Shadow – block, absence of light Reflect – bounce, mirror, reflection See – light source Sun – sunset, sunrise, position			
				Dangerous bright damaging UV Light			
Lesson 1 To be able to recognise that they need light in order to see things and that dark is the absence of light.	To be able to recognise that shadows are formed when the light from a light source is blocked by a solid object.	that the size o	find patterns in the way if shadows change. set up a simple fair test.			Lesson 5 To recognise that light from the sun can be dangerous and that there are ways to protect our eyes.	
Light How can we see objects without light?	Shadows Where can shadows be found?		anges in Shadows hange the size of a	Materials that Reflect Light Which material is the most reflective?			Protecting Eyes Are the sun's UV rays dangerous?