Year group joined/d	ate:	SEND/EI		PP:		
			<u>Science</u>			
EYFS	KS1		LKS2 ORANGE = Year 3 objectives GREEN= Year 4 objectives		ORANGE = Year 5 objectives  GREEN= Year 6 objectives	
	Year 1 Expected	Year 2 Expected	Year A	Year B	Year A	Year B
Animals including hu		7 cui L'Expected	/ Cui / i	7 Cui D	/ Cui /	7 CQ1 D
To comment and asks questions about aspects of their familiar world such as the place where they live or the natural world.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.	Notice that animals, including humans, have offspring which grow into adults.	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.  Describe the simple functions of basic parts of the digestive system in humans.  Identify the different types of teeth in humans and their simple functions.		Describe the changes as humans develop to old age.  Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood	
To shows care and concern for living things and the environment.	Identify and name a variety of common animals that are carnivores, herbivores and omnivores.	Find out about and describe the basic needs of animals, including humans, for survival	Identify that humans and some other animals have skeletons and muscles for support, protection and movement  Construct and interpret a variety of food chains, identifying producers, predators and prey.		Recognise the impact of diet, exercise, drugs and lifestyle and the way their bodies function	

To make observations of	Describe and compare	Describe the importance		Describe the ways in	
animals and plants and	the structure of a variety	for humans of exercise,		which nutrients and	
explain why some things	of common animals	eating the right amounts		water are transported	
occur, and talk about	or common animais	of different types of		1	
changes.				within animals including	
		food, and hygiene.		humans	
Curricular Aims:	Identify, name, draw and				
Nursery:	label the basic parts of				
Talk about my immediate	the human body and say				
family and experiences	which part of the body is				
that I have had chatting	associated with each				
in everyday play and					
focused sessions,	sense.				
showing the ability to					
concentrate, think					
through and extend					
ideas and real and					
imaginary thoughts with					
others.					
Reception:					
Show curiosity about the world in which I live and					
talk about my local area.					
Share own knowledge					
and ask questions of					
others to find out more					
Appreciate some					
similarities and					
differences between,					
lives, cultures and					
religions, both where I					
live and around the					
world.					
Living things and the	ir habitats				
Curricular Aims:	III Habitato	Explore and compare the	Recognise that living		Describe the differences
Nursery:		differences between	things can be grouped in		in the life cycles of a
Talk about my immediate					
family and experiences		things that are living,	a variety of ways.		mammal, an amphibian,
that I have had chatting		dead, and things that			an insect and a bird.
in everyday play and		have never been alive.			B 11 1 11 11 11 11 11 11 11 11 11 11 11
focused sessions,					Describe how living
showing the ability to					things are classified into
concentrate, think					broad groups according
through and extend					to common observable
ideas and real and					characteristics and based
imaginary thoughts with					on similarities and
others.					differences, including
Reception:					anterences, metading

Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more Appreciate some similarities and differences between, lives, cultures and religions, both where I live and around the world.					micro-organisms , plants and animals
		Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.		Describe the life process of reproduction in some plants and animals.  Give reasons for classifying plants and animals based on specific characteristics
		Identify and name a variety of plants and animals in their habitats, including micro-habitats.	Recognise that environments can change and that this can sometimes pose dangers to living things.		
		Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.			
Evolution and inherit	tance				
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to				Recognise that living things have changed over time and that fossils provide information about living things that	

concentrate, think				inhabited the Earth	
through and extend				millions of years ago.	
ideas and real and				minoris or years ago.	
imaginary thoughts with					
others.					
Reception:					
Show curiosity about the					
world in which I live and					
talk about my local area.					
Share own knowledge					
and ask questions of					
others to find out more					
Appreciate some					
similarities and					
differences between,					
lives, cultures and					
religions, both where I					
live and around the					
world.					
world.				Recognise that living	
				things produce offspring	
				of the same kind but	
				normally offspring vary	
				and are not identical to	
				their parents.	
				Identify how animals and	
				plants are adapted to	
				suit their environment in	
				different ways and that	
				adaptation may lead to	
				evolution.	
Plants					
To talk about some of	Identify and name a	Observe and describe	Identify and describe the		
the things they have	variety of common wild	how seeds and bulbs	functions of different		
observed such as plants,	and garden plants,	grow into mature plants.	parts of flowering plants:		
animals, natural and	including deciduous and	·	roots, stem/trunk, leaves		
found objects.	evergreen trees.		and flowers.		
	3.3.5.66.1.6.663.				
<u> </u>					

To develop an	Identify and describe the	Find out and describe		Explore the	
understanding of growth,	basic structure of a	how plants need water,		requirements of plants	
decay and changes over	variety of common	light and a suitable		for life and growth (air,	
time.	•	-			
	flowering plants,	temperature to grow and		light, water, nutrients	
	including trees.	stay healthy.		from soil, and room to	
				grow) and how they vary	
				from plant to plant.	
Curricular Aims:				Investigate the way in	
Nursery:				which water is	
Talk about my immediate				transported within	
family and experiences that I have had chatting				plants.	
in everyday play and					
focused sessions,					
showing the ability to					
concentrate, think					
through and extend					
ideas and real and					
imaginary thoughts with					
others.					
Reception:					
Show curiosity about the					
world in which I live and					
talk about my local area.					
Share own knowledge					
and ask questions of					
others to find out more					
Appreciate some					
similarities and differences between,					
lives, cultures and					
religions, both where I					
live and around the					
world.					
To shows care and				Explore the part that	
concern for living things				flowers play in the life	
and the environment.				cycle of flowering plants,	
				including pollination,	
				seed formation and seed	
				dispersal.	
Everyday Materials	and their uses & prop	erties and changes o	f materials		

To choose different	Distinguish between an	Identify and compare the		Compare/group together
materials for a particular	object and the material	suitability of a variety of		materials on the basis of
purpose.	from which it is made.	everyday materials,		their properties,
purpose.	moni winch it is made.			including their hardness,
		including wood, metal,		solubility, transparency,
		plastic, glass, brick, rock,		conductivity and
		paper and cardboard for		response to magnets
		particular uses.		
To understand and talk	Identify and name a	Find out how the shapes		Know that some
about similarities and	variety of everyday	of solid objects made		materials will dissolve in
differences in relation to	materials, including	from some materials can		liquid to form a solution
different materials.	wood, plastic, glass,	be changed by		and describe how to
	metal, water, and rock.	squashing, bending,		recover a substance from
		twisting and stretching.		a solution.
Curricular Aims:	Describe the simple			Use knowledge of solids,
Nursery:	physical properties of a			liquids and gases to
Talk about my immediate	variety of everyday			decide how mixtures
family and experiences	materials.			might be separated:
that I have had chatting in everyday play and				using filtering, sieving and evaporating.
focused sessions,				Give reasons, based on
showing the ability to				evidence from
concentrate, think				comparative and fair
through and extend				tests, for the particular
ideas and real and				uses of everyday
imaginary thoughts with				materials
others.				
Reception:				
Show curiosity about the				
world in which I live and				
talk about my local area.				
Share own knowledge				
and ask questions of others to find out more				
Appreciate some				
similarities and				
differences between,				
lives, cultures and				
religions, both where I				
live and around the				
world.				
	l .			

	Compare and group together a variety of everyday materials on the basis of their simple physical properties.			Demonstrate that dissolving, mixing and changes of state are reversible changes.
				Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more			Compare and group materials together, according to whether they are solids, liquids or gases	

Appreciate some similarities and differences between, lives, cultures and religions, both where I live and around the world.				
			Observe that some	
			materials change state	
			when they are heated or	
			cooled and measure the	
			temperature at which	
			this happens in degrees	
			Celsius.	
			Identify the part played	
			by evaporation and	
			condensation in the	
			water cycle and associate	
			the rate of evaporation	
			with temperature.	
D 1:				
Rocks				
Rocks Curricular Aims:		Compare and group		
Curricular Aims:		Compare and group		
		together different kinds		
Curricular Aims: Nursery: Talk about my immediate family and experiences		together different kinds of rocks on the basis of		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting		together different kinds of rocks on the basis of their appearance and		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions,		together different kinds of rocks on the basis of their appearance and		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others.		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception:		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area.		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge		together different kinds of rocks on the basis of their appearance and simple physical		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area.		together different kinds of rocks on the basis of their appearance and simple physical		
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Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more Appreciate some similarities and		together different kinds of rocks on the basis of their appearance and simple physical		

live and around the				
world.				
		Describe in simple terms		
		how fossils are formed		
		when things that have		
		lived are trapped within		
		rock.		
		Recognise that soils are		
		made from rocks and		
		organic matter.		
Seasonal Changes				
To comment and asks	Observe and describe			
questions about aspects	weather associated with			
of their familiar world	the seasons and how day			
such as the place where	length varies.			
they live or the natural				
world.				
Curricular Aims:	Observe changes across			
Nursery:	the four seasons.			
Talk about my immediate				
family and experiences				
that I have had chatting in everyday play and				
focused sessions,				
showing the ability to				
concentrate, think				
through and extend				
ideas and real and				
imaginary thoughts with				
others.				
Reception:				
Show curiosity about the				
world in which I live and				
talk about my local area.				
Share own knowledge				
and ask questions of				
others to find out more Appreciate some				
similarities and				
differences between,				
lives, cultures and				
religions, both where I				
live and around the				
world.				
world.				

Light			
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more Appreciate some similarities and differences between, lives, cultures and religions, both where I live and around the world.		Recognise that they need light in order to see things and that dark is the absence of light.	Recognise that light appears to travel in straight lines.
		Notice 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 light from a source is blocked by a solid object.	Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.  Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.  Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
		Find patterns in the way that the size of shadows change.	

Sound			
Curricular Aims:		Identify how sounds are	
Nursery:		made, associating some	
Talk about my immediate		of them with something	
family and experiences			
that I have had chatting		vibrating.	
in everyday play and			
focused sessions,			
showing the ability to			
concentrate, think			
through and extend			
ideas and real and			
imaginary thoughts with			
others.			
Reception:			
Show curiosity about the			
world in which I live and			
talk about my local area.			
Share own knowledge			
and ask questions of			
others to find out more			
Appreciate some			
similarities and			
differences between,			
lives, cultures and			
religions, both where I			
live and around the			
world.			
		Recognise that vibrations	
		from sounds travel	
		through a medium to the	
		ear	
		Find patterns between	
		the volume of a sound	
		and the strength of the	
		vibrations that produced	
		it.	
		Recognise that sounds	
		get fainter as the	
		distance from the sound	
		source increases.	
		Jource meredaes.	
Farmer and Manuata			
Forces and Magnets			

Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions  Compare how things move on different surfaces.  Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	
Talk about my immediate family and experiences that I have had chatting in everyday play and  surfaces.  Earth because of the force of gravity acting between the Earth and	
family and experiences that I have had chatting in everyday play and  Saltacs:  Earth occurs of the force of gravity acting between the Earth and	
that I have had chatting in everyday play and between the Earth and the fill is a second of the fill i	
in everyday play and	
Ine falling object.	
Notice same forces need	
showing the ability to contact between 2	
concentrate, triink	
through the extend	
imaginary thoughts with distance	
others.	
Reception:	
Show curiosity about the	
world in which I live and	
talk about my local area.	
Share own knowledge	
and ask questions of	
others to find out more	
Appreciate some	
similarities and	
differences between,	
lives, cultures and	
religions, both where I	
live and around the	
world.	
Observe how magnets Identify the effects of air	
attract or repel each resistance, water	
materials and not others. that act between moving	
surfaces.	
Compare and group Recognise that some	
together a variety of mechanisms, including	
everyday materials on levers, pulleys and gears,	
the basis of whether they allow a smaller force to	
are attracted to a have a greater effect.	
magnet, and identify	
some magnetic	
materials.	
Describe magnets as	
having two poles. Predict	
whether two magnets	
will attract or repel each	

		other, depending on		
		which poles are facing.		
Electricity				
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more Appreciate some similarities and differences between, lives, cultures and religions, both where I live and around the			Identify common appliances that run on electricity.	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
world.			Construct a simple series circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.  Identify whether a lamp will light in a simple series circuit, based on whether or not the lamp	Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches  Use recognised symbols when representing a simple circuit in a diagram.
			is part of a complete loop with a battery.  Recognise that a switch opens and closes a circuit	

		and associate this with whether or not a lamp lights in a simple series circuit.  Recognise common conductors / insulators and associate metals with being good conductors.		
Curricular Aims: Nursery: Talk about my immediate family and experiences that I have had chatting in everyday play and focused sessions, showing the ability to concentrate, think through and extend ideas and real and imaginary thoughts with others. Reception: Show curiosity about the world in which I live and talk about my local area. Share own knowledge and ask questions of others to find out more Appreciate some similarities and differences between, lives, cultures and religions, both where I live and around the world.			Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.  Describe the movement of the Moon relative to the Earth.	
			Describe the Sun,	

			Earth and Moon as approximately spherical bodies.	
			Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	
Below age related expectations				
At age related expectations				
Exceeding age related expectations				