

Romero Science Knowledge Progression Map

	EYFS Understanding the world	Year I	Year 2	Year 3	Year 4	Year 5	Year 6
	Orderstanding the world			l .			
	tunn	Animals including Humans	Uses of Everyday Materials	Forces & Magnets	Animals including Humans	Liwing things & their Habitats	Electricity
	To recognise that some environments are different to one in	(Humans)					
whice	rich they live	(**************************************	Knowledge:	Knowledge:	Knowledge:	Knowledge:	
		Knowledgez	- To identify and compare how suitable	- How things move differently on	- To describe the simple functions of the	- To describe the differences in the life	Knowledgez
Spri	ring.				, , ,	, , , , , , , , , , , , , , , , , , ,	- To associate the brightness of a lamp
2. To	To explore the natural world around them. (OBJECTIVE	- To identify and name parts of the human	different materials are for different jobs	different surfaces.	basic parts of the digestive system in	cycles of a mammal, an amphibian, an	or the volume of a buzzer with the
EXP	(PLORED IN ALL UNITS FROM YRI-6)	body.	- How the shapes of some solid objects	- That some forces are contact forces	humans.	insect and a bird	number and voltage of cells used in the
		- To draw and label scientific diagrams of	can be changed by squashing, bending,	and other forces are non-contact forces.	- To identify the different types of teeth	To describe the life process of	circuit
3. T	To name the five senses	parts of the human body.	twisting and stretching.	- That we can measure the size of	in humans and their simple functions.	reproduction in some plants and	To compare and give reasons for
	•	- That we have five senses: sight, smell,	(EYFS 4)	forces with a newton meter.	- To construct and interpret a variety	animals. (EYFS 7)	variations in how components function,
	To observe and interact with natural processes. For example,	touch, taste and hearing.		- That forces are measured in newtons.	of food chains, identifying producers,		including the brightness of bulbs, the
	melting during Winter, floating and sinking, shadows	- To rame the parts of the human body		- How magnets can attract and repel	predators, and prey.	- Use the idea of the Earth's rotation to	loudness of buzzers and the on/off
1 001	Them if and if water, forming and soluting, simulows	linked to each of the five senses.		each other.	(EYFS Physical Development)	explain day and night and the apparent	position of switches
	T 1 .1 .11 .11 .1	(EYFS 3 & 5)		- How to investigate materials to see if			- To use recognised symbols when
	To describe some things that they see, hear, feel, touch and			they are magnetic.			-
taste	ste			- To describe magnets as having two			representing a simple circuit in a
				poles.			diagram.
6. T	To name and describe plants and animals whilst outside			- Now to make predictions about			(EYFS Z)
				whether a pair of magnets will attract			
7. T	To understand the life cycle of plants (bean plant) and an						
anim	imal (ladybirds)			or repel each other. (EYFS 4 & 8)			
Autumn 2		Animals including Humans		Animals including Humans	Sound	Properties of Materials	Light
Sum	mmer	(Animals)					
8. T	To explore non-contact sources such as gravity or magnets	Knowledge:		Knowledge:		Knowledge:	Knowledge:
	0 0 0	· ·		Ü	Knowledge:	Ü	S Comments
9 т.	To name some specific features of a plant	- To identify a variety of common animals		-That animals, including humans, need	- To identify how sounds are made by	- To compare and group together	- To recognise that light appears to
""	To tuite some specific features of a paint	including fish, amphibians, reptiles, birds and		the right types and amounts of nutrition.	something vibrating,	everyday materials on the basis of their	travel in straight lines.
10 -	T 1 1 1 1 1 1 1 1 1	mammals.		-To be able to organise types of food	- To recognize that vibrations from	properties, including their hardness,	- To use the idea that light travels in
	. To understand the need to care and respect the environment	- To identify a variety of common animals		into groups.	sound travel through a medium to the	solubility, transparency, conductivity	straight lines to explain that objects are
and	d living things	that are carnivores, herbivores and		-To be able to identify animals that	ear.	(electrical and thermal), and response to	seen because they give out or reflect
		omnivores.		have skeletons.	- To find patterns between the pitch of	magnets	light into the eye.
		- To describe and compare the structure of a		-To be able to name some of bones in	a sound and the features of the object	- That some materials will dissolve in	- To explain that we see things because
		variety of common animals		the skeleton.	that produced it.	liquid to form a solution, and describe	light travels from light sources to our
		(EYFS 6)		-To explain the function of different	- To find patterns between the volume	how to recover a substance from a	eyes or from light sources to objects and
Deve	velopment Matters (Reception):			types of bones and muscles.	of a sound and the strength of the	solution	then to our eyes
Enco	courage interactions with the outdoors to foster curiosity and			(EYFS Physical Development)	, ,	- To use knowledge of solids, liquids	- To use the idea that light travels in
give	ve children freedom to touch, smell and hear the natural world				vibrations that produced it.	and gases to decide how mixtures might	straight lines to explain why shadows
arou	ound them during hands-on experiences.				- To recognise that sounds get fainter	be separated, including through filtering,	have the same shape as the objects that
					as the distance from the sound source	sieving and evaporating	cast them.
Crec	eate opportunities to discuss how we care for the natural world				increases.	, ,	(EYES 2)
	ound us.				(EYFS 2)	- To give reasons, based on evidence	(CIF3-Z)
""	ou us.					from comparative and fair tests, for the	
	Can annual (1941 and 1941 and					particular uses of everyday materials,	
	fer opportunities to sing songs and join in with rhymes and					including metals, wood and plastic	
poen	ems about the natural world.					- To demonstrate that dissolving,	
						mixing and changes of state are	
1 '	ter close observation, draw pictures of the natural world,					reversible changes	
Spring 1 inclu	luding animals and plants.	Everyday Materials	Animals including Humans	Light	Electricity	Animals including Humans	Animals including Humans
			(Human Biology)		ð		
	serve and interact with natural processes, such as ice melting,	Knowledgez	, , , , , , , , , , , , , , , , , , , ,	W I I		W I I	V II
a so	sound causing a vibration, light travelling through transparent	- To tell the difference between an object and	Knowledge	Knowledge:	Knowledge:	Knowledge	Knowledge
	iterial, an object	the materials from which it is made.	- That humans have offspring that grow	- That dark is the absence of light.	- To identify common appliances that	- To describe the changes as humans	· To identify and name the main parts of
casti	sting a shadow, a magnet attracting an object and a boat	•	into adults	- That we need light to see things.	run on electricity.	develop from birth to old age.	the human circulatory system, and
float	ating on water.	- To name a variety of everyday materials.	- To describe how humans change as	- That light is reflected from surfaces.	- To construct a simple series circuit,	(EYFS Physical Development)	describe the functions of the heart, blood
		- To describe the simple physical properties	they grow into adults.	- How light from the Sun can be	identifying and naming its basic parts.		vessels and blood
Enco	courage focused observation of the natural world. Listen to	of a variety of everyday materials.	- The basic needs of humans so that	dangerous and how we can protect	- To recognize that a lamp needs to be		· To recognise the impact of diet,
	ldren describing and commenting on things they have seen	- To compare and group together a variety	they can survive.	ourselves.	in a complete loop with a battery for it		exercise, drugs and lifestyle on the way
	rilst outside, including plants and animals.	of everyday materials based on their physical	- Why exercise is important for humans	- To recognise that shadows are formed	to light		their body's function
	and a manage of accounting point we at our at the talliance	properties.	to stay healthy.	when an opaque object blocks light.	ů		· To describe the ways in which
			- How humans can stay healthy with	- What factors affect the size of	- To recognise that a switch opens and		nutrients and water are transported
			good hygiene.	shadows. (EYFS 4)	closes a circuit and can affect whether a lamp will light or not.		within animals, including humans.
			GOOD TURNED IN	S WARD TYSE LETT S TO	.11 1: 1 1 1		THE WAR IN COMMITTIONS, OR LECTION IN THE TRUTTER IN



Romero Science Knowledge Progression Map

No	lame and describe some plants and animals children are likely		- What humans need to eat to keep		- To identify reasons why a series		(EYFS Physical Development)
	o see, encouraging children to recognise familiar plants and		healthy.		circuit does work		En en ingateur Beveur Britary
I	nimals whilst outside		(EYFS Physical Development)		- To recognise conductors and		
	William William Galland		<u>[ETFO FIGURE BOVER price w]</u>		insulators.		
Gu	ruide children's understanding by draw children's attention to				(FYES 2)		
	ne weather and seasonal features.						
	to measure and season and peasure out						
Pr	rovide opportunities for children to note and record the weather.						
	elect texts to share with the children about the changing						
	easons.						
				D 1 10 1	C	_	
oring 2 Th	hroughout the year, take children outside to observe the natural		Living things & their Habitats	Rocks and Soils	States of Matter	Forces	Evolution & Inheritance
	vorld and encourage children to observe how animals behave		Knowledge:				
	ifferently as the seasons change.		- To identify and compare things that	Knowledge:	Knowledgez	Knowledge:	Knowledge:
0	00 8		are living, dead and things that have	- To group together rocks based on their	- To compare and group materials	- To explain that unsupported objects	- To recognise that living things have
Lo	ook for children incorporating their understanding of the seasons		never been alive.	physical appearance.	together, according to whether they are	fall towards the Earth because of the	changed over time and that fossils
	nd		- To name and compare a variety of	- To group rocks together based on their	solids, liquids or gases.		provide information about living thing
	reather in their play.		habitats and microhabitats.	physical properties.	- To observe that some materials	force of gravity acting between the Earth and the falling object	that inhabited the Earth millions of
""	cool to the pouge		- To identify and name a variety of	- To explain how fossils are formed.	change state when they are heated or	* * *	· ·
			plants and animals in different habitats	that soils are made from rocks and	cooled	- To identify the effects of air resistance,	years ago
			and micro-habitats.	organic materials	- To measure and research temperatures	water resistance and friction, that act	- To recognise that living things
DL	hysical development links		- To describe how different plants and	organic manaram	at which materials change state.	between moving surfaces	produce offspring of the same kind, but
l l	now and talk about the different factors that support their		animals are suited to their habitats.		- To identify the part played by	- To recognise that some mechanisms,	normally offspring vary and are not
	verall health and wellbeings		- To explain how different habitats		evaporation and condensation in the	including levers, pulleys and gears,	identical to their parents
l l	ů		provide for the basic needs of plants		water cycle.	allow a smaller force to have a greater	- To identify how animals and plants
	regular physical activity		and animals.		- To associate the rate of evaporation	effect.	are adapted to suit their environment i
	healthy eating		- How different animals and plants		with temperature.	(EYFS 4 & 8)	different ways and that adaptation ma
	toothbrushing		depend on each other.		war temperature.		lead to evolution.
	sensible amounts of 'screen time'		- To be able to use simple food chains		(C173 4)		(EYFS 6)
	having a good sleep routine		to describe how animals get their food				
- t	being a safe pedestrian						
			I from plants and other animals.				
			from plants and other animals.				
nmer		Dlasta	(EYFS I)	Dlanta	Living things & their habitats.	Farth and Space	Living things & their Habitat
		Plants	EYFS 11 Plants	Plants	Living things & their habitats	Earth and Space	U U
Ca	Communication and language links	Plants	(EYFS I)	Knowledge:		'	Knowledge:
Ca	Communication and language links Understand "why" questions	Plants Knowledge:	(EYFS I)	Knowledge: - Identify and describe the functions of	Knowledge:	Knowledge:	Knowledge: - To describe how living things are
Ca	* *	Knowledgez	Plants	Knowledges - Identify and describe the functions of -different parts of flowering plants.		Knowledges - Describe the movement of the Earth,	Knowledges - To describe how living things are classified into broad groups according.
Ca	* *	Knowledge: - Identify and name a variety of wild and	Plants Knowledge:	Knowledge: - Identify and describe the functions of -different parts of flowering plants That different plants have different	Knowledges - To recognise that living things can be grouped in a variety of ways.	Knowledges - Describe the movement of the Earth, and other planets, relative to the Sun in	Knowledges - To describe how living things are classified into broad groups according common observable characteristics an
Ca	* *	Knowledges - Identify and name a variety of wild and garden plants	Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds	Knowledge: - Identify and describe the functions of -different parts of flowering plants That different plants have different requirements for life and growth.	Knowledges - To recognise that living things can be	Knowledges - Describe the movement of the Earth,	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences,
<u>C.</u> Ur	Inderstand "why" questions	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants	Knowledge: - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants	Knowledges - To recognise that living things can be grouped in a variety of ways.	Knowledges - Describe the movement of the Earth, and other planets, relative to the Sun in	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and
C.c Ur	Inderstand "why" questions LG Understanding the world	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs	Knowledge: - Identify and describe the functions of -different parts of flowering plants That different plants have different requirements for life and growth.	Knowledge: - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification	Knowledges - Describe the movement of the Earth, and other planets, relative to the Sun in the solar system	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
Ca Ur EL De	Inderstand "why" questions LG Understanding the world Pescribe their immediate environment using knowledge from	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants	Knowledge: - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants	Knowledge: - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a	Knowledges - Describe the movement of the Earth, and other planets, relative to the Sun in the solar system - Describe the movement of the Moon	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - To give reasons for classifying plants.
Cs Ur EL De ob	Inderstand "why" questions LG Understanding the world Pescribe their immediate environment using knowledge from bservation and discussion	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering plants	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants - To know that seeds need water and	Knowledges - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants grow including air, light, water, nutrients	Knowledge: - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a variety of living things in their local and	Knowledges - 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	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
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EL De ob	Inderstand "why" questions LG Understanding the world Pescribe their immediate environment using knowledge from bservation and discussion	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering plants	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants - To know that seeds need water and warmth to grow - To know that plants need light, water	Knowledge: - Identify and describe the functions of different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants grow including air, light, water, nutrients and room to grow. - How water is transported around	Knowledges - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environments. - To recognise that environments can	Knowledges - 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	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - To give reasons for classifying plant and animals based on specific
EL De ob	Inderstand "why" questions LG Understanding the world Pescribe their immediate environment using knowledge from beervation and discussion Explore the natural world around them, making observations and	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering plants	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants - To know that seeds need water and warmth to grow - To know that plants need light, water and air to grow	Knowledge: - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants grow including air, light, water, nutrients and room to grow. - How water is transported around plants.	Knowledges - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environments. - To recognise that environments can change and that this can sometimes	Knowledges - 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	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - To give reasons for classifying plant and animals based on specific
EL De ob Ex	Inderstand "why" questions LG Understanding the world Pescribe their immediate environment using knowledge from beervation and discussion Explore the natural world around them, making observations and	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering plants	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants - To know that seeds need water and warnth to grow - To know that plants need light, water and air to grow - To know that plants need nutrients to	Knowledge: - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants grow including air, light, water, nutrients and room to grow. - How water is transported around plants. - How flowers enable plants to	Knowledges - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environments. - To recognise that environments can change and that this can sometimes	Knowledges - 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	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - To give reasons for classifying plant and animals based on specific
EL De ob Ex dr Kn	Inderstand "why" questions LG Understanding the world escribe their immediate environment using knowledge from bservation and discussion xplore the natural world around them, making observations and rawing pictures of animals and plants now some similarities and differences between the natural world round them and contrasting environments, drawing on their	Knowledge: - Identify and name a variety of wild and garden plants - Identify and group deciduous and evergreen trees - Draw and label parts of common flowering plants	Plants Plants Knowledge: - Observe and describe seeds - Observe and describe how seeds change as they grow into mature plants - To observe and describe how bulbs change as they grow into mature plants - To know that seeds need water and warmth to grow - To know that plants need light, water and air to grow	Knowledge: - Identify and describe the functions of -different parts of flowering plants. - That different plants have different requirements for life and growth. - How different factors affect how plants grow including air, light, water, nutrients and room to grow. - How water is transported around plants. - How flowers enable plants to reproduce through the processes of	Knowledges - To recognise that living things can be grouped in a variety of ways. - How to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environments. - To recognise that environments can change and that this can sometimes	Knowledges - 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	Knowledges - To describe how living things are classified into broad groups according common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - To give reasons for classifying plant and animals based on specific
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Living things & their Habitats Human Biology

Plant Biology

Chemistry

Earth & Space

Light & Sound

Electricity & Forces

Science Culture Capital