Meldreth Primary Progression in Science

Scientific Disciplinary Knowledge & Prior Learning

EYFS (Development Matters): Explore the natural world around them. Describe what they see, hear and feel whilst outside. Understand the effect of changing seasons on the natural world around them.

KS1 (National Curriculum): pupils should be taught the following scientific methods, processes and skills: asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment performing simple tests, identifying and classifying using their observations and ideas to suggest answers to questions gathering and recording data to help in answering questions

KS2 (National Curriculum): pupils should be taught the following scientific methods, processes and skills: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary, taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate, recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs, using test results to make predictions to set up further comparative and fair tests, reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations, identifying scientific evidence that has been used to support or refute ideas or arguments

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Questioning	Ask simple questions about the world around them.	Ask questions and know some can be answered using scientific enquiry.	To explain that questions can be answered in different ways.	To use straightforward scientific evidence to answer questions or to support their findings.	To report on findings from an enquiry.	Raise scientific questions and hypothesise.	Plan an enquiry that will answer a question.
Observing	Make observations and pictures. Talk about similarities and differences.	Observe changes over time.	Measure and observe changes over time.	Make systematic and careful observations using appropriate equipment.	Make accurate, systematic and careful observations using appropriate equipment.	Take accurate and precise measurements.	Take accurate and precise measurements taking repeat readings when appropriate.
Classifying	Explore objects around them.	Group familiar objects.	Group and compare familiar objects	Classify familiar objects.	Use simple classification keys to classify familiar objects.	Use complex classification keys, identifying causal relationships.	Create classification keys, identifying evidence to support or disprove causal relationships.
Investigating		Carry out simple class comparative tests with support.	Carry out simple group comparative tests.	Carry out comparative tests that include making a prediction.	Carry out comparative tests that include making a prediction and controlling independent variables.	Design and carry out comparative and fair tests that include making predictions, controlling variables and results.	Design and carry out comparative and fair tests that include making predictions, controlling variables and asking further questions based on results.
Researching	Listen to stories with Science links and discuss what they hear	Find information from given simple sources.	Find and select information from given simple sources.	Research relevant information from a range of sources.	Research relevant information and select from a range of sources.	Explore how scientific evidence has changed over time.	Identify evidence that supports or disproves an idea.
Recording	Draw pictures.	Draw simple diagrams.	Draw simple diagrams and create scientific models.	Use labelled diagrams and scientific models. Use keys, bar charts and tables.	Create labelled diagrams and scientific models. Use keys, bar charts and tables.	Evaluate diagrams and models. Use tables, scatter, bar and line graphs.	Create and evaluate diagrams and models. Use tables, scatter, bar and line graphs.
Concluding	Explain simple 'why' and 'how' questions.	Describe what has been observed.	Describe what has been observed and explain why.	Explain observations using scientific vocabulary and explain why.		Evaluate predictions against re vocabulary, and begin to ident to discuss reliability of data	. •

Deeper Thinking EYFS/KS1:

- Can suggest ways of finding out through listening, hearing, smelling, touching and tasting
- Say whether things happened as they expected and if not why not Can independently consider controlling variables to make a fair test
- Can explain what they have found out using scientific vocabulary
- Can they make accurate measurements using nonstandard measurements i.e. multilink

Deeper Thinking KS2:

- Can observe and ask questions based on own observations before suggestion an area to test further
- Can choose the best way to answer a question and use information from different sources to plan an investigation Can make a prediction which links with other scientific knowledge
- Can use test results to make further predictions and set up further comparative tests
- Can explain how they could improve their way of working Can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- Can report findings from investigations through written explanations and conclusions

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Plants			
Explore the world around them by observing plants.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants including trees.	To observe and know how seeds and bulbs grow into mature plants. To find out and describe how plants need water, light and suitable temperature to grow and stay healthy.	Identify, know and describe the functions of different parts of flowering plants: roots, stem/truck, leaves and flowers. Explore and know the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate and understand the way in which water is transported within plants. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			
		Anii	mals, including Hur	nans		
Explore the world around them by observing animals.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).	To know that animals, including humans, have offspring which grow into adults. To know and describe the basic needs of animals, including humans, for survival (water, food and air). To know and describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	To identify and know 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. Identify and know that humans and some animals have skeletons and muscles for support, protection and movement.	Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	To describe the changes as humans develop to old age.	Identify and name the main parts of the human circulator system, and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet exercise, drugs and lifestyle of the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans. Identify, name, draw and labe the basic parts of the human body and say which part of the body is associated with each sense.

Notice similarities and	T	Evalore and compare the		Identify and name a constate of	To know and dozenih a tha	Describe how living things
differences in the world		Explore and compare the		Identify and name a variety of	To know and describe the	Describe how living things are
		differences between things that are living, dead, and		living things (plants and animals) in the local and wider	differences in the life cycles of	classified into broad groups
around them.		_		· · · · · · · · · · · · · · · · · · ·	a mammal, an amphibian, an	according to common
		things that have never been alive.		environment.	insect and a bird.	observable characteristics and based on similarities and
				Give reasons for classifying		differences, including
		Identify that most living things live in habitats to which		plants and animals based on		_
		they are suited and describe		specific characteristics.		microorganisms, plants and animals.
		how different habitats provide		specific characteristics.		aillitiais.
		for the basic needs of		Recognise that environments		Give reasons for classifying
		different kinds of animals and		are constantly changing and		plants and animals based on
		plants, and how they depend		that this can sometimes pose		specific characteristics.
		on each other.		dangers to specific habitats.		specific characteristics.
		on each other.		dangers to specific flusitation		
		Identify and name a variety of				
		plants and animals in their				
		habitats, including				
		microhabitats.				
		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.				
		Evo	olution and Inherita	nce		
						Recognise that living things
						have changed over time and
						that fossils provide
						information about living things
						that inhabited the Earth
						millions of years ago.
						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.
			Everyday Materials			read to Evolution.
Name some materials in their	To know how to distinguish	Find out how the shapes of	Everyday Materials			
environment.	between an object and the	solid objects made from some				
CHVII OHHICHL.	material from which it is	materials can be changed by				
	made.	squashing, bending, twisting				
	made.	and stretching.				
	Identify and name a variety of	ana stretoning.				
	everyday materials, including	Identify, compare and know				
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	wood, plastic, glass, metal,	everyday materials, including				
	water, and rock.	wood, metal, plastic, glass,				
		brick, rock, paper and				
	To be able to describe the	cardboard.				
	simple physical properties of a					
	variety of everyday materials.					
	Tancer, or every aday materials.					
	Compare and group together					
	Compare and group together					
	a variety of everyday					
	materials based on their					
	simple physical properties.					
			Rocks			
		Compare and group together				
		different kinds of rocks on the				
		basis of their appearance and				
		simple physical properties.				
		Describe in simple terms how				
		fossils are formed when things				
		that have lived are trapped				
		within rock. Recognise that				
		soil is made from rocks and				
		organic matter.				
		Properti	es and Changes in N	Materials		
Notice properties of everyday				Compare and group materials	Compare and group together	
materials, e.g. waterproof,				together, according to	everyday materials on the	
floats/ sinks.				whether they are solids,	basis of their properties,	
				liquids or gases.	including their hardness,	
				inquias of gases.	solubility, transparency,	
				Observe that some materials	conductivity (electrical and	
				change state when they are	thermal), and response to	
				heated or cooled, and	magnets.	
				measure the temperature at		
				which this happens in degrees	Know that some materials will	
				Celsius (°C), building on their	dissolve in liquid to form a	
				teaching in mathematics.	solution, and describe how to	
					recover a substance from a	
				Identify the part played by	solution.	
				evaporation and condensation		
				in the water cycle and	Use knowledge of solids,	
				associate the rate of	liquids and gases to decide	
				evaporation with	how mixtures might be	
				temperature.	separated, including through	
					filtering, sieving and	
					evaporating.	
					Give reasons, based on	
					evidence from comparative	
					and fair tests, for the	
					particular uses of everyday	
					materials, including metals,	
					wood and plastic.	

Demonstrate that disolocy mining and charges of state are everable changes. Expain that some charges result in the formation of new mannership, and the state of though is not usually result in the formation of new mannership, and that is side of charge is not usually result in the formation of new mannership, and that is side of charge is not usually result in the formation of new mannership, and the state of the stat	stand changes in the Observe and talk about changes across the four seasons .	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
Seasonal Changes Understand changes in the seasons and how day length vanes, including understanding that it is unable to look directly at look	stand changes in the Observe and talk about changes across the four seasons .	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
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Earth, and other planets, relative to the Sun in the solar	Earth and Space	Describe the constraint of the
relative to the Sun in the solar		
system.		relative to the Sun in the solar
		system.
Describe the movement of the		
Moon relative to the Earth.		Describe the movement of the

					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.	
Light						
			Recognise that they need light in order to see things and that dark is 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 the eyes. Recognise that shadows are formed when light from a light source is blocked by a solid object. Find patterns in the way that			Recognise that light appears to travel in straight lines. 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
			the size of shadows changes Electricity			as the objects that cast them.
			Liectricity	Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit based on whether or not the lamp 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.		Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. 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.

	Recognise some common					
	conductors and insulators and					
	associate metals with being					
	good conductors.					
Forces and Magnets						
Compare	e how things move on Explain that unsupported					
different	t surfaces. objects fall towards the Earth					
	because of the force of gravity					
Notice th	nat some forces need acting between the Earth and					
contact t	between 2 objects, the falling object.					
	netic forces can act at					
a distanc						
	resistance, water resistance					
Observe	how magnets attract and friction, that act between					
	each other and moving Surfaces.					
	ome materials and					
not othe						
	mechanisms including levers,					
Compare	e and group together pulleys and gears allow a					
l · · · · · · · · · · · · · · · · · · ·	of everyday materials smaller force to have a greater					
	asis of whether they effect					
	icted to a magnet and					
	some magnetic					
materials						
materials	3.					
Nescribe	e magnets as having 2					
poles.						
poies.						
Predict w	whether 2 magnets					
	act or repel each					
	epending on which					
poles are						
pules are	a ruenig.					

Misconceptions:

• https://pstt.org.uk/resources/common-misconceptions/