Curriculum Map Science 24-25

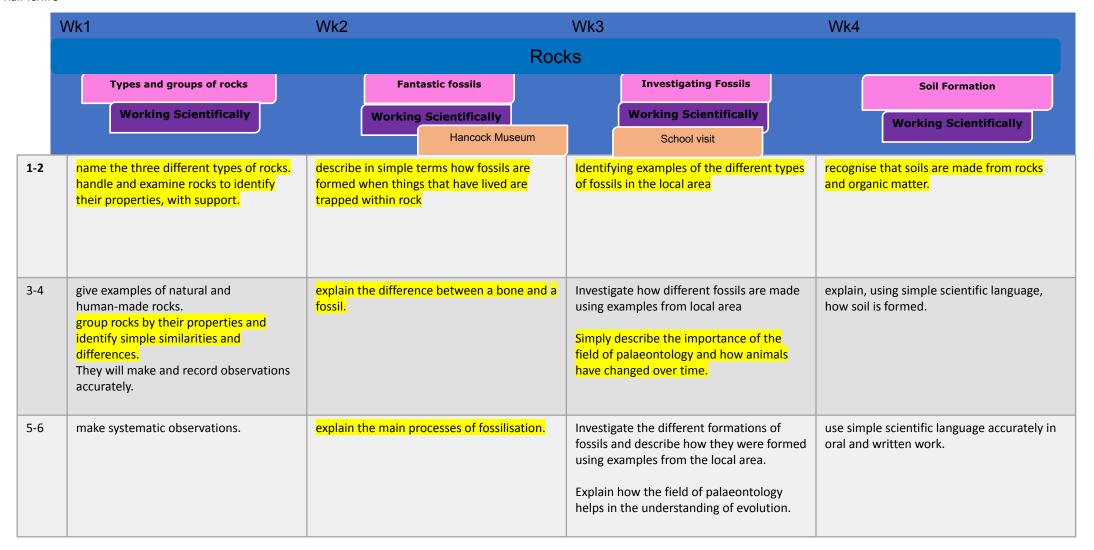
Wk1	Wk2	W	/k3	Wk4		Wk5		Wk6		Wk7	
				Earth	and Space						
Half Term 25 Oct – 5 Nov											
Wk8	Wk9		Wk10		Wk11		Wk12		Wk13		wk14
				Force	s & Magnets	6					
Christmas 20 Dec – 3 Jan											
Wk14	Wk15	W	/k16	Wk17		Wk18		Wk19		Wk20	
				E	ectricity						
Half Term 21 – 25 Feb											
Wk21	Wk22		Wk23		Wk24		Wk25		Wk26		
WKZI	VVKZZ		WKZS	-		_	VVKZS		VVRZO	-	_
					Plants						
Easter 11 – 22 April											
Wk27		Wk28			Wk29			Wk30			
				ı	Rocks						
Half Term 30 May – 3 June											
Wk32	Wk33			Wk34			Wk35		W	′k36	
			An	imals ir	cluding hum	nans					

Half	lalf Term 1							
	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	
	Earth and Space							
	Spherical Bodies	The Planets	Movement of planets	Night and Day	Night and Day international	Movement of the moon	Summative Assessment	
	Working Scientifically	Working Scientifically			Working Scientifically	Working Scientifically		
1-2	 Describe a sphere Identify scientific evidence with support. 	 Name the planets in the solar system with support. 	Explain how the planets orbit the Sun	Explain how night and day occur.	Make predictions about night and day in different places on Earth.	 Explain that the Moon orbits the Earth not the Sun. Report and present findings from enquiries with support. 	Examples:QuizWritten AssessmentPractical investigation	
3-4	Describe the Sun, Earth and Moon as spherical	Name the planets in the solar system independently	Distinguish between heliocentric and geocentric ideas of planetary movement.	Explain that day and night is due to rotation of the Earth.	 Support the idea that different places on Earth experience night and day at different times with evidence. Report and present findings from enquiries 	Explain how the Moon moves relative to the Earth.	Visits (to be placed where appropriate): Life Centre Hancock Planetarium	
5-6	 Name at least two different shapes the Earth was thought to be. Identify scientific evidence that has been used to support or refute ideas. 	 Describe some features of the planets. Place the planets in the solar system in the correct order. 	Explain theories of planetary movement in the solar system using evidence.	Explain using evidence how night and day occur.	 Explain why night and day occur at different times in different places on Earth. Write a conclusion which explains my findings. 	• Explain how the Earth and Moon move relative to the Sun.		

	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7		
	Forces & Magnets								
	Pushes and Pulls	Faster and Slower	Scrapyard Challenge	Magnet Strength	Magnetic Poles	Marvellous Magnets	Summative Assessment		
	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically			
				Discovery Museum					
1-2	 Identify forces as pushes and pulls 	 describe friction as a force that slows objects down 	 feel the pulling force of a magnet sort materials according to whether they are magnetic or not 	participate in an investigation into magnet strength	• identify the different poles of a bar magnet	 identify the different poles of a bar magnet make a prediction form a conclusion from their results 	Examples:QuizWritten		
3-4	Identify the type of force required to carry out an action	investigate the force of friction produced by different surfaces	 explain that magnets produce an invisible pulling force identify magnetic materials 	 identify different types of magnet investigate the strength of different magnets 	 identify when magnets will repel or attract based on their poles use a magnetic compass with four points 	 identify when magnets will repel or attract based on their poles explain their predictions and conclusions using key words or prompts. 			
5-6		Make generalisations about the types of surfaces that produce the most or least friction	 identify and describe the invisible magnetic field around a magnet make generalisations about the types of materials that are attracted to magnets 		use a magnetic compass with 8 points	 construct a bar chart of their results explain their predictions and conclusions. 			

	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	
	Electricity							
	Appliances	Making Circuits	Complete Circuits	Conductors	Insulators	Switches	Electrical Discussions	
	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically		
1-2	define what an electrical appliance is and are starting to identify those that are mains- or battery-powered.	identify different circuit components and begin to describe what they do.	can build series circuits, identifying whether they are complete or incomplete	can explain what electrical conductors are and give some examples of these.	can explain what electrical Insulators are and give some examples of these.	identify some different switches and start to explain how switches work in a circuit.	With support can apply their knowledge of electricity to different situations.	
3-4	can define what an electrical appliance is and identify those that are mains- or battery powered.	identify different circuit components and explain what they do.	can build series circuits, identifying and explaining whether they are complete or incomplete.	explain what electrical conductors are and give several examples of these.	explain what electrical insulators are and give several examples of these.	identify several different switches and explain how switches work in a circuit.	apply their knowledge of electricity to different situations	
5-6	can define what an electrical appliance is and identify a variety of appliances that are mains- or battery-powered, including more unusual appliances	confidently identify different circuit components and explain what they do. They can explain the terms 'battery' and 'cell'.	confidently build series circuits, identifying and explaining whether they are complete or incomplete. They can independently explain how to make an incomplete circuit complete.	confidently explain what electrical conductors are and give a range of examples of these.	confidently explain what electrical insulators are and give a range of examples of these.	identify a range of different switches and confidently explain how switches work in a circuit	confidently apply their knowledge of electricity to different situations in depth	

Wk	:1	Wk2	Wk3	Wk4	Wk5	Wk6			
	Plants								
	Parts of a plant	Plants and Growth	What have we found out?	Moving Water	Fantastic Flowers	The Life Cycle			
W	orking Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically			
1-2	identify the different parts of flowering plants: roots, stem/trunk, leaves and flowers	Identify the some of the different requirements of plants for life and growth	Record findings using simple drawings, labelled diagrams and bar charts	investigate the way in which water is transported within plants	explore the part that flowers play in the life cycle of flowering plants, including pollination.	Identify the main stages of the life cycle of flowering plants with support			
3-4	identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers	Identify several requirements of plants for life and growth	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables	Investigate and describe the way in which water is transported within plants	Describe the role of parts of flowering plants in the life cycle of flowering plants, including pollination and seed dispersal.	Identify and order the main stages of the life cycle of flowering plants			
5-6	Explain the functions of the different parts of plants.	explore 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	Report on findings from enquiries, including oral and written explanations and presentations of results and conclusions	investigate and explain the way in which water is transported within plants	Explain the role of parts of flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	Describe using key language the main stages of the life cycl of flowering plants.			



	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6			
	Animals including humans								
	Parts of the digestive system	The digestive Process	The Heart	Blood	Drugs and Alcohol	Diet and Exercise			
	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically			
1-2	identify the parts of the digestive system	Simply describe the journey food takes in the digestive system	identify the main parts of the heart with support	Identify the different blood vessels Simply describe the role of the blood	Identify different types of drugs and alcohol Simply describe the impact that drugs and alcohol have on the body.	Identify and investigate different types of healthy foods Identify and investigate at least three examples of exercise			
3-4	identify the parts of the digestive system and the functions of the basic parts.	Describe the journey food takes in the digestive system	identify and name the main parts of the heart	Identify the different blood vessels and some differences. Describe that blood carries oxygen and carbon dioxide	Identify and name a range of drugs including alcohol. Describe how certain drugs effect the human body	Simply describe a heathy diet using examples of healthy foods Investigate the benefits of different exercises			
5-6	Confidently identify all parts of the digestive system and their functions.	Explain how food is digested with reference to the functions.	identify and name the main parts of the human circulatory system, and describe the functions of the heart	Explain the role of blood vessels, Simply describe blood as oxygenated and deoxygenated	Identify and describe the impact drugs and alcohol have on the body's functions.	Explain the benefit of a healthy diet using examples of healthy and unhealthy foods Explain the benefits of exercise using evidence through investigation			