	St Cuth	.			
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer	
Rocks	AIH-skeleton	Sound	Electricity	States of matter	
Skills *name and group the three main types of rocks, compare their features and record findings. *identify rocks that are natural or man- made, record results in a table. *make a prediction, observe changes, record the information collected and form a conclusion on soil permeability. *recognise that soils are made from rocks and organic matter. Knowledge *Will know how to compare and group together different kinds of rocks on the basis of the information soils of rocks on the	Skills *making systematic and carful observations. *recording findings using simple scientific language and tables. *reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. *identifying differences, similarities or changes related to simple scientific ideas and processes. *using straightforward scientific evidence to answer questions or to support their findings.	 Skills * asking relevant questions and using different types of scientific enquiries to answer them. *making systematic and carful observations. *recording findings using simple scientific language and tables. *reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. *identifying differences, similarities or changes related to simple scientific ideas and processes. *using straightforward scientific given to be scientific. 	Skills *identify common appliances that run on electricity by making systematic observations. *Able to classify a range of appliances by which type of electricity they use. *construct a simple circuit. *identify and name all parts of a circuit. *Predict and test complete and incomplete circuits, with and without switches. *Recognise some conductors and insulators, and associate metals with being good conductors. Knowledge *Will understand the key ideas about	Skills *make systematic observations, and record their findings in a chart. *record their findings using simple scientific language using diagrams and labels. *use straightforward scientific evidence to answer questions or to support their findings. *Can design and carry out an investigation. Knowledge *will be able to compare and group materials has them according to whethem	
 Physical properties. *can describe in simple terms how fossils are formed when things that have lived are trapped within rock. *explain what a palaeontologist is. *I know the difference between a bone and a fossil. 	Enowieage *Will understand that all animals need the right types and amounts of nutrition, and they get that from what they eat. *Will know what nutrition comes from different food groups. *Will be able to explain that some animals have skeletons and muscles for support, protection and movement.	 Support their findings. identify how sounds are made, associating some of them with something vibrating. Knowledge *knows that sounds get fainter as the distance from the sound source. * I know how sounds are made. 	*will know how to identify complete and incomplete circuits. *Will know what materials will conduct or insulate electricity and some of their uses. *Will know how switches work and why they are needed. *Demonstrate their understanding of electrical safety and how to use devises safely.	 Water has together, according to whether they are solids, liquids or gasses. *Will be able to observe that some materials change state when they are heated or cooled. *Will be able to measure and record the temperature at which changes happen in 	
<u>Reasoning & Progression</u> The children will build on prior learning about soil formation	<u>Reasoning & Progression</u> The children will build on the scientific knowledge gained	*I know how sound travels. *I know what pitch is and how to change it.	*will be able to summarise details about renewable energy.	degrees Celsius. Reasoning & Progression	
throughout Early Years and Year 1-2 where they have looked at worms and how leaves decay and become part of the soil matter. Wormary-mini compost bin. Core Texts Rocks and volcanic activities lift the flap	throughout Early years and Class 2 where they have been encouraged to look at animal diets and what animals need to survive. They will look in more depth now at a healthy balanced diet and understand the dietary needs of animals including humans.	<u>Reasoning & Progression</u> The children will build on the scientific knowledge gained through gathering and recording data and through inquiries they should now be able to plan themselves, to answer specific questions.	Reasoning & Progression The children will build on the scientific knowledge they already have about electrical safety. They will now be able to explain the dangers of electricity and how to stay safe around electricity. Core Texts	The children will build on knowledge gained from EYFS all the way through to Year 3 where they look at changes in materials. They will now be able to explain those changes and make accurate recordings.	

Cross Curricular Links Core Texts Core Texts See inside Scien	ce-Usborne Core texts
Computing: Using search engines to See inside your body-Usborn	
research Mary Anning See inside Your Body Uslopme	ar Links See Thirde Weather and Climate-
Geography: volcances and igneous rock	
formation Computing: Using	search engines to
Cross Curricular Links Matrix recording information in a table research renewal	ple energy
ipads used to record 'science of sound' Geography: Looki	ng at renewable energy General Knowledge - Usborne
<u>Cultural Capital</u> Maths: recording information in a table videos sources in our loca	al area.
Beach trip to Cocklawburn beach. Fossil Computing: research using computers, Maths: Using a V	EN diagram and other Cross curricular links
hunting, Junior Palaeontologists, Traas and chrome books charts to record -	findings.
Eossil workshop at Haucock museum	Maths: Recording information in graphs
	and a pie chart. Using a data logger to
	check and record temperatures
Torness nuclear p	ower station visit
Vocabulary	Vocabulary
<u>Vocabulary</u>	
Volume / amplitude / loud / aviet /	Solid / liquid / gas / particles / melt /
Igneous / seamentary/metamorphic travel / particles / wave / pitch / Battery / wires	freeze / properties / evaporation /
/ natural/man-made/laentity/ Nutrients/vertebrate/ vibrate/ vibration/absorb/	ator / remanuable condensation / mater / temperature /
permeable / aurable / tossil / Inverteerate / hydrostatic bones / soundproofing / soundwave	
palaeontologist enabyteleton / exoskeleton / bones / energy	weight / precipitation / rain / hall /
mascies / contract / relax / joint / Sound	sleet / snow
KOCKS PHOTOSYNTHICSIS End Points E	loctricity
ENA POINTS ATU/sceleton	States of matter
• They will know how sounds	
• They will know the three controlling are made,	will know common End points
Main types of rocks and now They will be able to aroup They will be able to explain electric	
They are formed.	• They will be able to sort and
• They will be able to explain food into an eat-well plate. • They will know what pitch is conct	describe materials.
now tossils are tormea. • They will know what and how to change it.	• They will be able to explain
They will be able to explain nutrients different foods They will understand how laccic	and demonstrate
what a palaeontologist is provide. sound travels different	will be also to identify understanding of gasses and
and who mary Anning is. • Know that humans and distances depending on the	will be dete to identify the interview of gasses and
• They will be able to explain some other animals have volume of the sound and the	
the tour main processes of clealetons and muscles for medium it needs to travel	• They will be able to describe
soil tormation. Skeletons and muscles for through,	and summarise about
Design and carry out an Support, protection and Switch	different materials as they
investigation into soil movement.	change state, understanding
	will be able to why they change state.
their findings. understanding of how recogn	They will have an in depth
and in	sulators.
They will recogn	nise some renewable understanding of the water
energy sources.	cycle and will be able to
	demonstrate understanding
	of all of the stages of the