

St Barnabas C of E Primary School

Y4 Component Knowledge

Subject	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
History	Bristol’s Aviation History – The Wright Brothers • The chronology of Aviation • To find out who the Wright Brothers were • Understand the concord and impact on Bristol • How did aviation in Bristol develop?	The Anglo-Saxons, Vikings and Scots ▪ To know that the Anglo-Saxons came to England after the Romans left. ▪ To know that the Picts and Scots were early settlers in Scotland ▪ To know what life was like in an Anglo-Saxon settlement ▪ To know that over time many Anglo-Saxon people converted to Christianity ▪ Describe how shipbuilding skills helped the Vikings to explore ▪ To know that the Vikings invaded Britain ▪ To know that the Anglo-Saxons and Vikings lived in Britain ▪ To know that Alfred defeated the Vikings ▪ Understand that Vikings believed in many gods and goddesses ▪ Find out who King Canute was and what he is famous for ▪ Describe the Battle of Hastings that was fought in 1066	Ancient Greece ▪ To know that Ancient Greeks lived in independent city-states. ▪ To understand the time period of the Ancient Greeks ▪ Explore artefacts from Ancient Greece ▪ Understand that Athens was the birthplace of democracy ▪ To know that Spartans were famous for being great warriors ▪ To know that city states joined together to fight in Persian wars ▪ To know that Alexander the Great was a significant individual ▪ To understand the meaning behind philosophy ▪ To know that the Ancient Greeks worshipped different types of Gods ▪ Olympic games ▪ The legacy of the Ancient Greeks ▪	Ancient Egypt • Identify the achievements of some of the earliest civilisations • Build on understanding of Ancient Egypt chronology • To understand the changes that took place from the old kingdom • Explain the successes of the new kingdom • Understand the significance of Rameses II • Explain the end of the Egyptian empire		

Geography	Spatial Sense • Recognise Geographical tools on a globe – equator, poles, lines of longitude and latitude • To know that scale tells us the distance between places on a map • Use four figure grid references to locate places on a map • Recognise key features of the local area • Understand how the local area has changed over time	Physical and Human Geography of Ancient Egypt • Locate Egypt • Locate places of significance – Cairo etc • Physical and human Geography	Rivers – including Siston Brook • To know the key features of a river • Know the physical geography of a river and describe its journey • River study – fieldwork – Willsbridge Mill • Identify rivers in Europe • Identify rivers in Africa • Identify rivers in Asia			Locating world’s countries • To locate Greece and explore some of its key Geography • Identify the climate of Greece and make comparisons • Make comparisons between Greek and UK houses – why are they different? • Explain the tourist industry in Greece • To identify how the climate affects the crops
Science	Animals including Humans	Sound	All Living Things	States of Matter	Electricity	
NC Ob	• 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	▪ identify how sounds are made, associating some of them with something vibrating	• recognise that living things can be grouped in a variety of ways • explore and use classification	▪ compare and group materials together, according to whether they are solids, liquids or gases	• 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	

		▪ recognise that vibrations from sounds travel through a medium to the ear ▪ find patterns between the pitch of a sound and features of the object that produced it ▪ 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	keys to help group, identify and name a variety of living things in their local and wider environment • recognise that environments can change and that this can sometimes pose dangers to living things	▪ observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) ▪ identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	• 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 • recognise some common conductors and insulators, and associate metals with being good conductors
Small steps	• name the twelve main parts of the digestive system and describe their basic functions • name the different teeth and relate the shape to its function • plan and conduct a fair test to identify which drink causes the most tooth decay • construct and interpret a variety of food chains – herbivore, omnivore, carnivore, producer, prey and predator.	• Identify how sounds are made and identify the vibration • Explain how vibrations travel through solids, liquids or gases to the ear • Describe the parts and	• Name the seven life processes using the acronym MRS GREN and identify how animals and plants complete the life processes • Name the five main animal	• Identify solids, liquids and gases and characteristics of each • Investigation – do all liquids behave the same? Test the viscosity and taste of different ketchups	• Identify common appliances that use electricity – understand how mains electricity is transported from power stations and how batteries run out of charge • Construct a simple circuit and name the parts • Predict whether a light bulb will or will not work

		functions of the outer, middle and inner ear • Plan a fair test investigation – does the sound of the pinna affect the volume of the sound? • Explain what pitch is – pan pipe: length of the pipe and pitch of the note • Find patterns between variety of instruments and how to alter the volume – volume and strength of vibration • Investigation – which material is best at muffling sound?	groups and sort animals based on their characteristics – herbivore, omnivore and carnivore • Sort animals into vertebrates and invertebrates • Explore local area around school and use identification keys to name a variety of living things • Use a classification key to identify living things and create own to identify living things found in school environment • Balanced argument – should litter be banned? Discuss the impact human activity has on the environment.	• Understand what a thermometer is used for and make sensible predictions based on temperature • Observe that materials change state when they are heated or cooled • Explore the part played by evaporation and condensation in the water cycle • Investigation – fair test ‘do all liquids evaporate?’ • Explain the relationship between temperature and rate of evaporation. What conditions would accelerate the rate of evaporation?	depending on the circuit and how it can be fixed • Investigation – how can we test if a material is a conductor or an insulator? • Design and make a switch to control the flow of electricity in a series circuit and light a bulb
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