



YEAR 5/6 CYCLE A			BLOCK 6	
	Aims, Attainment Targets and Guidance		Suggested teaching sequence	
Phase 1	REA4: Where did the bible come from?			
	Explore the origins of sacred writings and consider their importance for believers today Explore a variety of forms of literature found in sacred books and investigate a range of religious teachings Explore rules for living found in sacred writings and teachings and ask questions about their impact on the lives of believers		Investigat and respo the histor Features - learn abou what it m Christian between l personal e	e the history of the Bible and its origins \rightarrow ask nd to questions about the Bible \rightarrow learn about y of the Bible and some of its \rightarrow investigate the contents of the Bible \rightarrow ut different translations of the Bible and eans for Christians today \rightarrow investigating the daily lives. \rightarrow understand the difference iteral and symbolic truth and to reflect on emotions.
	REA5: Stories of Christianity			
phase 2	 Explore the life of key religious figure and practices of special significance Explore the meaning of stories draw reflect on the significance of key work Raise questions about issues which investigate some answers to be four teachings 	res and make links with teachings to followers yn from religious sources and ords, phrases or expressions cause people to wonder and nd in religious writings and	Explore the stories → such as ju and Naom to religiou Adulterou and the costories/page stories/page stories/	the themes of the Bible and identify familiar Read key stories of Christianity. Create a focus stice and freedom \rightarrow explore the story of Ruth in \rightarrow explore the story of Daniel and relate this is persecution today \rightarrow study the Story of the s Woman, the judgement of King Solomon rying camel \rightarrow consider the significance of the rables to todays society.
	SA5: Super scientist – Forces			
Phase 3	 explain that unsupported objects far force of gravity acting between the explore the effects identify the effects of air resistance, act between moving surfaces – expl recognise that some mechanisms, in allow a smaller force to have a grea taking measurements, using a range increasing accuracy and precision, t appropriate recording data and results of increa diagrams and labels, classification k line graphs find out how scientists, for example helped to develop the theory of gra 	Il towards the Earth because of the Earth and the falling object – , water resistance and friction, that lore the effects ncluding levers, pulleys and gears, ter effect – explore the effects e of scientific equipment, with aking repeat readings when sing complexity using scientific eys, tables, scatter graphs, bar and c, Galileo Galilei and Isaac Newton vitation.	What is w complete Galileo Ga of friction and expla explain th to find ou endeavor pulleys all recognise a greater research H	eight \rightarrow study gravitational force and investigations \rightarrow research the lives of work of ililei and Isaac Newton \rightarrow identify the effects acting between moving surfaces \rightarrow identify in the effects of air resistance \rightarrow identify and e effects of water resistance \rightarrow investigation t how different shapes move in water: relate and longboats \rightarrow recognise that levers and ow a smaller force to have a greater effect \rightarrow that gears allow a smaller force to have effect \rightarrow explore and design mechanisms \rightarrow Kemp Starley
	SA6: Super scientist - Light / CA	3: We are cryptographers		
Phase 4	 recognise and use the idea that light that objects are seen because they explain that we see things because our eyes or from light sources to ob use the idea that light travels in strathave the same shape as the objects identifying scientific evidence that hideas or arguments. Use logical reasoning to explain how to detect and correct errors in algor Understand computer networks incorprovide multiple services, such as the opportunities they offer for commutive to the they offer for commutive concerns about content and contact. 	t travels in straight lines to explain give out or reflect light into the eye light travels from light sources to jects and then to our eyes hight lines to explain why shadows that cast them. Thas been used to support or refute w some simple algorithms work and rithms and programs. Iuding the internet; how they can ne world wide web; and the nication and collaboration. and responsibly; recognise r; identify a range of ways to report t.	Understar light trave light enter reflected reflection difference consolidat and make shadow p Learn more through a keeping co →investig distances	adding of light and shadow and to explore how $sils \rightarrow investigate how we see things through ring the eyes \rightarrow explore how light can beand change direction \rightarrow investigateis from a variety of surfaces \rightarrow explore theis between shadows and reflections andte knowledge of how we see things \rightarrowdesigna periscope \rightarrow Investigate light by usinguppets \rightarrow consider light phenomena.The about communicating information securelyin introduction to cryptography (the science ofcommunication and information secret)sate early methods of communicating over\rightarrowlearn about two early ciphers, and consideres a secure password$





		SA7: Super scientists – Sound / CA4: We are architects	
Phase 5	•	identify how sounds are made, associating some of them with something vibrating 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. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	Explore vibration in a range of instruments \rightarrow explore whether sounds can travel through different materials \rightarrow explore the relationship between distance and volume \rightarrow test if some materials are effective in preventing vibrations from sound sources reaching the ear \rightarrow investigate how sounds can be different pitches and volumes \rightarrow find out how the length, thickness and tightness of a string affects its pitch \rightarrow research examples of science museums and their architecture \rightarrow learn to use Trimble SketchUp \rightarrow create own science gallery design .
		SA8: Super scientists – Electricity CA5: We are game developers	
Phase 6	• • • • •	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 recognized symbols when representing a simple circuit in a diagram. systematically identifying the effect of changing one component at a time in a circuit design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	Recap electrical circuits and conductors/insulators → construct series circuits → investigate different components and represent in a diagram → investigate ways in which the brightness of a bulb or speed of a motor is changed → plan, carry out and evaluate an experiment to see how changing the wire in a circuit affects the brightness of a bulb → review and assess understanding of circuits. Plan their own simple computer game → design characters and backgrounds →create a working prototype →develop further based on feedback they receive.