

A	Science Year 3/4	Science Year 5/6	Geography / History	Art/ Design & Technology	I.C.T. 3/4	I.C.T. 5/6	R.E. Year 3/4	R.E. Year 5/6
Autumn Term 1	Forces & Magnets Compare and group together a variety of everyday materials based on whether they are attracted to a magnet, and identify some magnetic materials. Observe how magnets attract or repel each other and attract some materials and not others.	Properties and Changes of Materials Compare and group everyday materials by properties such as hardness, transparency, and electrical/thermal conductivity.	History: World War 2 A Child's Eye Perspective from the Home Front Announcement of War Evacuees Rationing and Dig for Victory Air-raids / The Blitz	D&T -Super Seasonal Cooking Know when different fruits and vegetables are in season in the United Kingdom. Explain where and how a variety of ingredients are grown, reared, caught and processed. Generate a range of ideas for balanced seasonal recipes.	Unpacking hardware and software: Understanding technology and computer systems in relation to their hardware and software. Defining types of technology. Knowing how systems work together. Identifying & understanding Effective searching: Exploring how to effectively search the Internet. Exploring safety aspects of online information. Using a search engine. Search rankings. Reliable searching. Search algorithms.	Word processing: Using industry-standard software to create documents. Creating documents. Using images. Entering and editing text. Using tables and templates.	4.1 David and the Psalms: What values do you consider to be important?	6.1 Life as a journey: Is every person's journey the same? Why do people of faith make pilgrimages? Hinduism, Islam, Judaism, Sikhism
Autumn Term 2	Animals (including humans) Identify that animals need the right types and amounts of nutrition, and that they cannot produce their own food; they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Electricity Plan and investigate electrical circuits, recording results and drawing diagrams to show how brightness, volume, and speed of components vary.	History: World War 2 Role of women Nurse Airey War memorial research D-Day Remembrance The war ends Life after the war	Art- British Artists Paint Paint parts of a famous artwork. Know the work of different British Artists. Draw illustrations, make a portrait and paint with colour.	Route planners: Using 2Go to create routes to screen turtles. Coding using angles of turn and repetition. Writing commands using rotation. Creating algorithms and writing code. Planning routes. Repetition in 2GO.	Quizzing: Making effective quizzes using two quiz exploring types of questioning and an effective presentation of a quiz. Evaluating the features of a good quiz. Choosing appropriate question types. Making use of feedback and titles. Testing and editing quizzes. Game creator: Designing and making a 3D maze adventure using 2DIY3D. Exploring the features of a good game. Designing and making sprites and the game world. Evaluating the playability of games.	3.2 Christmas: How does the presence of Jesus Impact on people's lives?	5.2 Christmas: How do our celebrations reflect the true meaning of Christmas?
Spring Term 1	Living things and their habitats Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.	Animals (including humans) Describe the changes that occur as humans develop with age. Identify and name the main parts of the human circulatory system, including the heart, blood vessels and blood. Describe how nutrients and water are transported within bodies. Recognise the impact of diet, exercise, drugs and lifestyle on the body's function.	Geography: Earth Matters – Biomes To investigate the locations and main features of the earths major biomes and climatic zones. Continents and oceans Arctic / Antarctic Temperate Biome Mediterranean Biome Desert Biome Tropical Biome Exploring change due to human activity and climate change.	D&T: Sewing Analyse and test a range of existing products. Develop a design aimed at particular individuals or groups. Explain why different fabric decoration techniques have been chosen.	Coding: Developing coding skills using 2Code. Using flow charts in 2Chart. Using timers. Using repetition. Testing and debugging.	Coding: Developing coding skills using 2Code. Using functions. Understanding flow charts and control simulations. Coding for user input	3.3 Jesus: How did/does Jesus change lives?	6.3 The Eucharist: Why do Christians celebrate the Eucharist?
Spring Term 2	Plants Explore the part that flowers play in the life cycle of flowering plants.	Light Recognise that light appears to travel in straight lines. Use the idea to explain that objects are seen because they give out or reflect light into the eye. That we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	Geography: Climate Change To differentiate between climate and weather Causes of Climate Change Impact of Climate change on world biomes Climate inequality Adaptation – how will our lives change Local impacts Hope and positive actions	Art: Wildlife Clay Roll and soften clay and make textures in clay using clay tools. Make a 3D model. Draw patterns based on their own observations. Know the work of Brancusi's sculptures and describe facts about Brancusi's life and work.	Presentations: Using industry-standard software to create presentations. Adding media. Customising with animation and timings. Designing effective presentations.	Graphing: Understanding the benefits of creating common graph types digitally. Using appropriate features to present data in the best possible way. Creating a range of graph types. Incorporating multiple databases. Using graphs to solve a problem. Exporting and importing files	4.4 Easter: A story of betrayal or trust? What do world faiths say about forgiveness? Hinduism, Islam, Judaism, Sikhism	5.4 Easter: Why do Christians believe that Easter is a celebration of victory?
Summer Term 1	States of Matter Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled. Identify the part played by evaporation and condensation in the water cycle.	Living things and their habitats. Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals.	History: Maya Where was the Mayan Civilisation? When? Settlements The Sun and religion Temples Farming and Food	D&T: Kite Making Use research to create ideas and refine them to develop design criteria. Build and join strong frame structures and stiffen materials. Apply their understanding of kite-making.	Spreadsheets: Working with data using spreadsheets and the 2Calculate tool. Creating graphs. Understanding cell addresses. Using the turtle formula. Using the formula bar. Combining 2 calculate functions to analyse data.	Spreadsheets: Using industry-standard software to work with steady spreadsheets. Performing calculations. Entering and using formula. Presenting data. Solving real life problems.	4.5 The Church: Are all churches the same? Are all places of worship the same? Do people worship God in the same way? Hinduism, Islam, Judaism, Sikhism	5.9 St Paul: How did the news of Jesus' resurrection spread around the world?
Summer Term 2	Light Recognise that they need light to see things and that dark is the absence of light. Notice that light is reflected from surfaces.	Revision Block review of the year's science topics A	History: Maya Everyday life The arrival of the Spanish Conquistadors Disease and famine Modern-day Yucatan and tourism	Art: South American Art-Collages Make a collage by selecting and arranging the colours needed. Create a design for a callograph, link a callograph evenly and print my callograph onto the collage. E-mail: Communicating electronically using 2Email. Considering the safety aspects of e-mail communication. Composing and replying to emails. Operating and sending attachments. Using e-mail safely.	Microbit: Coding using a microbit as an external device. Using the LED display. Sequencing and timing. Understanding inputs and outputs. Adding sounds and gestures. E-mail: Communicating electronically using 2Email. Considering the safety aspects of e-mail communication. Composing and replying to emails. Operating and sending attachments. Using e-mail safely.	3D Modelling: Exploring computer-aided design and 3D using the 2Design and make tool. Working with viewpoints of 3D objects. Adding an additive points on a model. Designing for a purpose. Microbit: Coding using a microbit as an external device. Exploring sensor inputs and the accelerometer. Using selectors, variables, inputs and outputs. Coding for the microbit pins.	3.1 Called by God: What does it mean to be called by God? Local Faith Leaders: Who are they and what do they do? Hinduism, Islam, Judaism, Sikhism	6.7 People of faith: How does having faith affect people's lives? How does having faith affect people's lives? Buddhism, Hinduism, Islam

B	Science Year 3/4	Science Year 5/6	Geography/ History	Art/ Design & Technology	I.C.T. 3/4	I.C.T. 5/6	R.E. Year 3/4	R.E. Year 5/6
Autumn Term 1	Sound: 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 the features of the object that produced it	Properties and Changes of Materials: Compare and group together everyday materials based on their properties, including their solubility and response to magnets. Demonstrate dissolving, mixing & changes of state, and how these can create new materials.	Geography Rivers Water cycle UK Rivers - Source to Sea Including field visits Easedale and Kent Estuary Flooding World Rivers Impact of Climate change on hydrology and rivers locally and globally	D&T: Global Food Name some varied ingredients and say which part of the world they come from. Explain the different food groups on the Eatwell Plate. Follow a simple recipe. Use some basic food skills, such as grating and chopping, which enable them to prepare a variety of simple savoury dishes.	Animation: Creating digital animations with the 2Animate tool. Knowing types of animation. Understanding onion skinning. Exploring animation features using storyboarding.	Networks: Learning what networks do and how they connect devices. Considering safely aspects of networks and collaboration. Identifying examples of networks. Recognising types of networks. Understanding Internet services. Discussing positive and negatives of networks. Databases: Using table-based databases for collecting, presenting, searching and analyzing data. Understanding records and fields. Creating a collaborative database. Searching databases. Analyzing data.	3.6 Harvest: How do people of faith say thank you to God for the harvest? How do people of faith say thank you to God for the harvest? Judaism, Hinduism	5.1 The Bible: How and why do Christians read the Bible? Why are sacred texts so important to people of faith? Hinduism, Islam Judaism Sikhism
Autumn Term 2	Rocks & Fossils: Compare and group together different kinds of rocks based on 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 soils are made from rocks and organic matter.	Earth and Space: Describe the movement of the Earth and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies.	Geography: Mountains Mountains of the UK Contours and mapping Mountain weather and altitude World mountain ranges Impact of Climate Change of mountain environments *Kendal Mountain Festival Staying safe in the mountains	Art: Autumn Print Print using Quickprint tiles. Show colours in their drawing or printing. Mix and select appropriate colours. Draw observational details based on the leaf in front of them. Paint an image that resembles details on a vegetable skin. Combine different types of materials to create a collage.	Logo: Learning the text based logo coding language to create patterns and shapes. Coding sequences, repetition and procedures. Using logo commands. Writing command in the sequence. Refining code using repetition and procedures. Branching databases: Creating branching databases (binary tree databases) using 2Question. Asking binary questions. Completing branching databases into question. Creating and testing branching databases.	Blogging: Understanding how blogs and their features can effectively engage an audience. Planning the theme, content and structure. Writing, editing, and publishing a blog post. Understanding blog moderation. Reviewing and commenting on blog posts. Microbit: Coding using a microbit as an external device. Using the microbit as a data logger. Measuring, recording and analysing environmental data. Collecting data and exporting to graphical software.	4.2 Christmas: Why is Jesus described as the light of the world? Why is light an important symbol in world faiths? Judaism	6.2 Advent: How do Christians prepare for Christmas?
Spring Term 1	Living Things & their Habitats Recognise that environments can change and that this can sometimes pose dangers to living things.	Forces Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces.	History Stone Age – Bronze Age Britain Stone Age Archaeology Hunter gathers Stone Henge Settlements The Havering Hoard Mystery – historical investigation using archaeological sources.	D&T Mechanical Posters Explore mechanical systems. Draw a simple annotated design. Start to generate ideas for design criteria. Make a prototype and finished poster which has at least one lever/ linkage mechanism. Evaluate what they did well on their product and things they could improve.	Sound stories: Adding narrative and sound effects to create audiobooks using 2Cast. Recording audio content. Creating sound effects. Post-production editing. Composing Beats: Using the Busy Beats tool to explore and compose music digitally. Exploring pulse rhythm and tempo. Understanding pitch and texture. Composing a melody.	Coding: Developing coding skills using 2Code. Coding efficiently by redefining code. Stimulating a physical system. Exploring decomposition and abstraction. Using functions and variables.	4.3 Jesus: Why do Christians believe Jesus is the Son of God? Why do Jewish people believe that the Sabbath/Shabbat is so important? Judaism	5.3 Jesus: Why do Christians believe Jesus was a great teacher?
Spring Term 2	Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Explore the requirements of plants for life and growth, and how they vary from plant to plant. Investigate the way in which water is transported within plants.	Evolution & Inheritance Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Identify how animals and plants are adapted to suit their environment in different ways, and that adaptation may lead to evolution.	History Bronze Age – Iron Age Britain (Celts) Advances in technology Bronze – Iron Life in the Bronze age Hill Forts Food and Farming Settlements – round houses Iron Age day, bread making, mini iron age village creation.	Art Plants and Flowers Draw details carefully. Print using the hapazome technique. Arrange patterns using different leaves. Shape and join paper to resemble plants. Use own drawings as ideas for sculptural work. Make a 3D model.	Coding: Developing coding skills using 2 code. Introducing selection. Exploring design properties. Introducing loops. Coding number variables.	Introduction to Python: Introducing text based Python coding using Python in Pieces as a platform. Python in Pieces translates between block code and Python. Comparing block and text code to be used. Coding for text output. Working with different data types. Coding repetition in Python.	3.4 Easter: Is the cross a symbol of sadness or joy?	6.4 Jesus (Easter): Who was Jesus? Who is Jesus? Buddhism, Hinduism, Islam, Judaism, Sikhism
Summer Term 1	Electricity 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.	Living things and their habitats Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.	Geography Earth Matters Volcanoes – structure and eruptions Including Pompeii eruption The Pacific “Ring of Fire” Earthquakes Tsunamis Hurricanes and storms local and global.	D&T Felting Design products with the user in mind thinking about aesthetics and functionality. Aim the design criteria at a target market. Use at least two different types of stitches. Create an accurate paper template. Measure and mark a sewing and cutting line. Make a product using felt.	Introduction to AI: Understanding what artificial intelligence is, how it can help, and the ethics around its use. Exploring how AI works. Investigating the positive and negative impacts of AI. Considering AI in the future.	Spreadsheets: Working with data using spreadsheets in 2Calculate tools. Use formulae. Exploring measurement conversions. Carrying out numerical investigations. Creating computational models.	3.5 Rules for Living: Which rules should we follow? Does everybody follow the same rules? Why? Why not? Buddhism, Islam, Sikhism	6.6 God: What is the nature and character of God? Have you identified any common beliefs about God across different faiths? Hinduism, Islam
Summer Term 2	Animals (including humans) 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.	Revision Block A review of the year's science topics.	History Ancient Greece / Sports Tournaments Ancient Olympics Ancient Greek society Events Modern Olympics Country research/events	Art- still life Fruit and vegetables Varying mediums; Pencil, pastel, crayon and water colour. Produce an observational drawing in charcoal. Draw details carefully. Mix and select colours to paint an image of a fruit or vegetable.	Microbit: Coding using a microbit as an external device. Exploring sensor inputs and the accelerometer. Using variables, inputs and outputs. Coding with selections and loops. 17 Touch-typing: Developing touch typing skills using 2Type. Recognising keyboard locations. Understanding correct finger positioning, improving accuracy and speed.	Data Detectives: Using the Data Detectives tool to work out with large datasets to analyse complex data and answer questions. Filtering and sorting data. Grouping data. Linking tables. Binary: Understanding binary as a number system and its purpose and application in computing. Examining how binary represents data in digital	4.6 Prayer: What is prayer? How do people of World Faiths pray? Buddhism, Hinduism, Islam, Judaism	5.5 Old Testament women: Did she make the right choice? Judaism

						systems. Counting in binary. Converting from decimal to binary. Exploring binary in relation to game states.		
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C	Science Year 3/4	Science Year 5/6	Geography/ History	Art/ Design & Technology	I.C.T. 3/4	I.C.T. 5/6	R.E. Year 3/4	R.E. Year 5/6
Autumn Term 1	Forces & Magnets Compare and group together a variety of everyday materials based on whether they are attracted to a magnet, and identify some magnetic materials. Observe how magnets attract or repel each other and attract some materials and not others.	Properties and Changes of Materials Compare and group everyday materials by properties such as hardness, transparency, and electrical/thermal conductivity.	History Romans in Britain Roman invasion of Britain The Roman Army Romans in the Lake District: Hadrian's Wall Rebellion – Boudicca Archaeology and artefacts	D&T Programming Adventures Understand how a floor robot moves and program it accurately to move along a given route. Explore and select from a range of different materials to create obstacle squares. Evaluate the effectiveness of different materials and suggest improvements based on observations.	Unpacking hardware and software: Understanding technology and computer systems in relation to their hardware and software. Defining types of technology. Knowing how systems work together. Identifying & understanding Effective searching: Exploring how to effectively search the Internet. Exploring safety aspects of online information. Using a search engine. Search rankings. Reliable searching. Search algorithms.	Word processing: Using industry-standard software to create documents. Creating documents. Using images. Entering and editing text. Using tables and templates.	4.1 David and the Psalms: What values do you consider to be important?	5.1 The Bible: How and why do Christians read the Bible? Why are sacred texts so important to people of faith? Hinduism, Islam, Judaism, Sikhism
Autumn Term 2	Animals (including humans) Identify that animals need the right types and amounts of nutrition, and that they cannot produce their own food; they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Electricity Plan and investigate electrical circuits, recording results and drawing diagrams to show how brightness, volume, and speed of components vary.	History Romans - Anglo Saxons Reasons why the Romans left Britain Roman legacy Who were the Anglo Saxons? Anglo Saxon settlements and lives The discovery of Sutton Hoo and how it changed opinions about the Anglo-Saxons Mythology – Beowulf	Art European Artists Give information about European artists (Anselm Kiefer, Michelangelo, Rembrandt, Salvador Dali), architects (Le Corbusier) and designers (Coco Chanel). Design and make an item of clothing out of materials.	Route planners: Using 2Go to create routes to screen turtles. Coding using angles of turn and repetition. Writing commands using rotation. Creating algorithms and writing code. Planning routes. Repetition in 2GO.	Quizzing: Making effective quizzes using two quiz exploring types of questioning and an effective presentation of a quiz. Evaluating the features of a good quiz. Choosing appropriate question types. Making use of feedback and titles. Testing and editing quizzes. Game creator: Designing and making a 3D maze adventure using 2DIY3D. Exploring the features of a good game. Designing and making sprites and the game world. Evaluating the playability of games.	3.2 Christmas: How does the presence of Jesus Impact on people's lives?	6.2 Advent: How do Christians prepare for Christmas?
Spring Term 1	Living things and their habitats Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.	Animals (including humans) Describe the changes that occur as humans develop with age. Identify and name the main parts of the human circulatory system, including the heart, blood vessels and blood. Describe how nutrients and water are transported within bodies. Recognise the impact of diet, exercise, drugs and lifestyle on the body's function.	Geography Comparing People and Places Local Area Settlements Mapping – OS map work Facilities Transport networks Changes to settlements over time Contrasting locality in the UK	D&T The Great Bread Bake Off Design and make a bread product. Demonstrate skills when making the product. Produce work which includes an annotated diagram and chosen equipment appropriately. Evaluate how successful their product is with reference to their original design criteria.	Coding: Developing coding skills using 2Code. Using flow charts in 2Chart. Using timers. Using repetition. Testing and debugging.	Coding: Developing coding skills using 2Code. Using functions. Understanding flow charts and control simulations. Coding for user input	3.3 Jesus: How did/does Jesus change lives?	5.3 Jesus: Why do Christians believe Jesus was a great teacher?
Spring Term 2	Plants Explore the part that flowers play in the life cycle of flowering plants.	Light Recognise that light appears to travel in straight lines. Use the idea to explain that objects are seen because they give out or reflect light into the eye. That we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	Geography Modern Europe Atlas work Countries of Europe Physical features Research culture and landmarks Foods we eat and growing climates Impact of climate change on Europe Travelling around Europe, planning	Art Insects Produce an observational drawing and show colours. Draw details carefully. Tell facts about artists (Louise Bourgeois, Jennifer Angus). Talk about what they see in some 'Insect' artworks and name some 'Insect' artworks. Design and make a mosaic. Design and make a 3D model.	Presentations: Using industry-standard software to create presentations. Adding media. Customising with animation and timings. Designing effective presentations.	Graphing: Understanding the benefits of creating common graph types digitally. Using appropriate features to present data in the best possible way. Creating a range of graph types. Incorporating multiple databases. Using graphs to solve a problem. Exporting and importing files	4.4 Easter: A story of betrayal or trust? What do world faiths say about forgiveness? Hinduism, Islam, Judaism, Sikhism	6.4 Jesus (Easter): Who was Jesus? Who is Jesus? Buddhism Hinduism, Islam, Judaism, Sikhism
Summer Term 1	States of Matter Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled. Identify the part played by evaporation and condensation in the water cycle.	Living things and their habitats. Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals.	History Earliest Civilisations Ancient Egypt Where is Egypt? Importance of the River Nile Pharaohs Pyramids and Tombs Hieroglyphics	D&T Marbulous Structures Explore existing free standing structures and explain what gives them strength, reinforcement and stability. Select tools and equipment to join card together. Design and build a marble run.	Spreadsheets: Working with data using spreadsheets and the 2Calculate tool. Creating graphs. Understanding cell addresses. Using the turtle formula. Using the formula bar. Combining 2 calculate functions to analyse data.	Spreadsheets: Using industry-standard software to work with steady spreadsheets. Performing calculations. Entering and using formula. Presenting data. Solving real life problems.	4.5 The Church: Are all churches the same? Are all places of worship the same? Do people worship God in the same way? Hinduism, Islam, Judaism, Sikhism	6.6 God: What is the nature and character of God? Have you discovered any beliefs about God in common across different faiths? Hinduism Islam
Summer Term 2	Light Recognise that they need light to see things and that dark is the absence of light. Notice that light is reflected from surfaces.	Revision Block A review of the year's science topics	History Earliest Civilisations Ancient Egypt Creation Story Gods Everyday Life / Homes Make Papyrus / Bread Archaeologists and curses	Art Ancient Egypt Produce an observational drawing in charcoal. Name some work and give information on the life and work of Leger, Hockney, and Man Ray. Use clay tools. Roll and soften clay. Mix and select colours. Paint an ancient Egyptian mask. Make ancient Egyptian style designs in clay. Design and make a 3D model.	Microbit: Coding using a microbit as an external device. Using the LED display. Sequencing and timing. Understanding inputs and outputs. Adding sounds and gestures. E-mail: Communicating electronically using 2Email. Considering the safety aspects of e-mail communication. Composing and replying to emails.	3D Modelling: Exploring computer-aided design and 3D using the 2Design and make tool. Working with viewpoints of 3D objects. Adding an additive points on a model. Designing for a purpose. Microbit: Coding using a microbit as an external device. Exploring sensor inputs and the accelerometer. Using selectors, variables, inputs and	4.1 David and the Psalms: What values do you consider to be important?	5.5 Old Testament women: Did she make the right choice? Judaism

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D	Science Year 3/4	Science Year 5/6	Geography/ History	Art/ Design & Technology	I.C.T. 3/4	I.C.T. 5/6	R.E. Year 3/4	R.E. Year 5/6
Autumn Term 1	Sound 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 the features of the object that produced it	Properties and Changes of Materials Compare and group together everyday materials based on their properties, including their solubility and response to magnets. Demonstrate dissolving, mixing & changes of state, and how these can create new materials.	Geography South America and Rainforests Discover the continent of South America – Atlas work Countries of South America Amazon Basin Animals of the Amazon Indigenous tribes – first contact Threats to the forest	D&T Making Musical Instruments Research and develop design criteria to inform the design of a musical instrument. Select from and use a range of materials and components according to their functional properties and aesthetic qualities to make an instrument. Evaluate ideas and products against their own design criteria and consider the views of others to improve their work.	Animation: Creating digital animations with the 2Animate tool. Knowing types of animation. Understanding onion skinning. Exploring animation features using storyboarding.	Networks: Learning what networks do and how they connect devices. Considering safely aspects of networks and collaboration. Identifying examples of networks. Recognising types of networks. Understanding Internet services. Discussing positive and negatives of networks. Databases: Using table-based databases for collecting, presenting, searching and analyzing data. Understanding records and fields. Creating a collaborative database. Searching databases. Analyzing data.	3.6 Harvest: How do people of faith say thank you to God for the harvest? How do people of faith say thank you to God for the harvest? Judaism, Hinduism	5.1 The Bible: How and why do Christians read the Bible? Why are sacred texts so important to people of faith? Hinduism, Islam Judaism Sikhism
Autumn Term 2	Rocks & Fossils Compare and group together different kinds of rocks based on 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 soils are made from rocks and organic matter.	Earth and Space Describe the movement of the Earth and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies.	Geography North America Discover the continent of North America – Atlas work Canada USA states and cities Natural landmarks Grand Canyon / Yellowstone / Niagara Caribbean Islands Hurricanes etc	Art North American Art Make your own landscape - To learn about the great artist Ansel Adams, to make a black and white landscape collage. To learn about the artist Helen Frankenthaler, using their bodies to create an abstract painting. To learn about the artist Jean-Michel Basquiat - To use colour in their design like Jean-Michel Basquiat, recording patterns.	Logo: Learning the text based logo coding language to create patterns and shapes. Coding sequences, repetition and procedures. Using logo commands. Writing command in the sequence. Refining code using repetition and procedures. Branching databases: Creating branching databases (binary tree databases) using 2Question. Asking binary questions. Completing branching databases into question. Creating and testing branching databases.	Blogging: Understanding how blogs and their features can effectively engage an audience. Planning the theme, content and structure. Writing, editing, and publishing a blog post. Understanding blog moderation. Reviewing and commenting on blog posts. Microbit: Coding using a microbit as an external device. Using the microbit as a data logger. Measuring, recording and analysing environmental data. Collecting data and exporting to graphical software.	4.2 Christmas: Why is Jesus described as the light of the world? Why is light an important symbol in world faiths? Judaism	6.2 Advent: How do Christians prepare for Christmas?
Spring Term 1	Living Things & their Habitats Recognise that environments can change and that this can sometimes pose dangers to living things.	Forces Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces.	History Invaders and Settlers - Vikings Who were the Vikings? When did they live? Where did they come from? Viking Raids – Lindisfarne Viking ships and warriors Viking settlements Social Structure – Thanes etc	D&T Vikings – Longboat Children will describe the design and shape of Viking longboats and how sails have been used to power travel on water in different cultures. They will make a Viking longboat and use trial and error to improve their product. Understand how to evaluate the impact of changes to a design.	Sound stories: Adding narrative and sound effects to create audiobooks using 2Cast. Recording audio content. Creating sound effects. Post-production editing. Composing Beats: Using the Busy Beats tool to explore and compose music digitally. Exploring pulse rhythm and tempo. Understanding pitch and texture. Composing a melody.	Coding: Developing coding skills using 2Code. Coding efficiently by redefining code. Stimulating a physical system. Exploring decomposition and abstraction. Using functions and variables.	4.3 Jesus: Why do Christians believe Jesus is the Son of God? Why do Jewish people believe that the Sabbath/Shabbat is so important? Judaism	5.3 Jesus: Why do Christians believe Jesus was a great teacher?
Spring Term 2	Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Explore the requirements of plants for life and growth, and how they vary from plant to plant. Investigate the way in which water is transported within plants.	Evolution & Inheritance Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Identify how animals and plants are adapted to suit their environment in different ways, and that adaptation may lead to evolution.	History Invaders and Settlers Vikings / Anglo Saxons Where did the Vikings settle? Evidence of settlement – place names etc Everyday life and artefacts A divided Britain – kingdoms Viking and Saxon Kings	Art Plants- exploring the art of Georgia O Keefe. Observational drawings of plants. Create a piece of Art in the style of Georgia O Keefe using oil pastel. Understand colour mixing, learning basic watercolour techniques and experimenting. Create a piece of artwork using watercolour.	Coding: Developing coding skills using 2 code. Introducing selection. Exploring design properties. Introducing loops. Coding number variables.	Introduction to Python: Introducing text based Python coding using Python in Pieces as a platform. Python in Pieces translates between block code and Python. Comparing block and text code to be used. Coding for text output. Working with different data types. Coding repetition in Python.	3.4 Easter: Is the cross a symbol of sadness or joy?	6.4 Jesus (Easter): Who was Jesus? Who is Jesus? Buddhism, Hinduism, Islam, Judaism, Sikhism
Summer Term 1	Electricity 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.	Living things and their habitats Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.	History Local History Study - Storth Historical Maps / Images The old railway - visit Primary and secondary sources Using census data Old school record books	D&T Battery Operated Lights Explain how technology has helped shaped the world we live in. Explore and make a series and parallel circuit and follow instructions to make a switch. Draw a simple annotated design. Write their own simple design criteria. Make a product which contains a working circuit to light a bulb. Use a series of given questions to evaluate their product.	Introduction to AI: Understanding what artificial intelligence is, how it can help, and the ethics around its use. Exploring how AI works. Investigating the positive and negative impacts of AI. Considering AI in the future.	Spreadsheets: Working with data using spreadsheets in 2Calculate tools. Use formulae. Exploring measurement conversions. Carrying out numerical investigations. Creating computational models.	3.5 Rules for Living: Which rules should we follow? Does everybody follow the same rules? Why? Why not? Buddhism, Islam, Sikhism	6.6 God: What is the nature and character of God? Have you identified any common beliefs about God across different faiths? Hinduism, Islam
Summer Term 2	Animals (including humans) 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	Revision Block review of the year's science topics. A	Geography Geographical Skills To undertake fieldwork Using OS maps and creating own maps Data Collection Exploring Change	Art Bodies Use pen, charcoal, felt tip, make maquettes, make paper clothes and sculpt using clay Giacometti-inspired models to create artwork that shows progression in skills. The children will	Microbit: Coding using a microbit as an external device. Exploring sensor inputs and the accelerometer. Using variables, inputs and outputs. Coding with selections and loops.	Data Detectives: Using the Data Detectives tool to work out with large datasets to analyse complex data and answer questions. Filtering and	4.6 Prayer: What is prayer? How do people of World Faiths pray? Buddhism, Hinduism, Islam, Judaism	5.5 Old Testament women: Did she make the right choice? Judaism

	<p>Construct and interpret a variety of food chains, identifying producers, predators and prey.</p>		<p>Morecambe Bay Curriculum</p>	<p>also have the opportunity to explore the work of 'Bodies' artists Julian Opie, Alberto Giacometti and Henry Moore.</p>	<p>17 Touch-typing: Developing touch typing skills using 2Type. Recognising keyboard locations. Understanding correct finger positioning, improving accuracy and speed.</p>	<p>sorting data. Grouping data. Linking tables.</p> <p>Binary: Understanding binary as a number system and its purpose and application in computing. Examining how binary represents data in digital systems. Counting in binary. Converting from decimal to binary. Exploring binary in relation to game states.</p>		
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