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|  | **Year 5** | | | | |
|  | **Autumn** | | **Spring** | **Summer** | |
| **Science** | 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.  Know the life cycle of different living things e.g. mammal, amphibian, insect  Reproduction in plants  Reproduction in animals  **Animals including Humans**  Describe the changes as humans develop to old age.  Create a timeline to indicate stages of growth in humans | | Properties and changes of materials  Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets  Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution  Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating  Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic  Demonstrate that dissolving, mixing and changes of state are reversible changes  Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. | 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  Use the idea of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky.  Forces  Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object – and the impact on our lives.  Identify the effects of air resistance, water resistance and friction, that act between moving surfaces  Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. | |
| **Computing** | Coding  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  Logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs   * Use technology to control an external device   Online Safety  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  -understand that they have to make choices when using technology and that not everything is true and/or safe | | Search Engines  Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration  Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content   * Understand how search results are selected and ranked   Online Safety  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  -understand that they have to make choices when using technology and that not everything is true and/or safe  -understand that they have to make choices when using technology and that not everything is true and/or safe | Using 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  -combine sequences of instructions and procedures to turn devices on and off  Online Safety  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.  -understand that they have to make choices when using technology and that not everything is true and/or safe | |
| **Geog** |  | | **South America**  **Spring Two**  Locate the world’s countries, using maps to focus on South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities  **Locational Knowledge**  Know the names of and locate a number of South American Countries  **Place knowledge**  Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, and South America  **Geographical skills and fieldwork**  Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied | **Rivers and Rainforests**  **Summer One**  **Locational Knowledge**  Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features of rivers and land-use patterns; and understand how some of these aspects have changed over time.  **Human and physical geography**  Describe and understand key aspects of:  Physical geography, including: climate zones, biomes, rivers and the water cycle  Know what is known by biomes and what the features of a specific biome are.  Label layers of a rainforest and know what deforestation is | |
| **Hist** | Invaders and Settlers **Auntumn One**  Britain’s settlement by Anglo-Saxons and Scots  the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor  Anglo Saxons   * *Know how Britain changed between the end of the Roman occupation and 1066* * *Know about how the Anglo- Saxons attempted to bring about law and order in the country* * *Know that during the Anglo-Saxon period Britain was divided in to many kingdoms* * *Know that the way the kingdoms were divided led ti the creation of some of our county boundaries today* * *Use a timeline to show when the Anglo-Saxons were in England*   Vikings  *-Know where the Vikings came from and show this on a map*  *-Know that the Vikings and Anglo- Saxons were often in conflict*  *-Know why the Vikings frequently won battles with the Anglo Saxons* | | **World War 2** **Autumn Two & Spring One**  **Historical Enquiry**  a study of an aspect or theme in British history that extends pupils’ chronological knowledge beyond 1066 ***( Battle of Britain)***  ***-****Describe events from the past*  *-Know how an event or events from the past has shaped our life today*  *-Draw an accurate timeline with different historical periods showing key historical events lives of significant people*  *-Know how crime and punishment over a period time*  *-Know how Britain has major influence on the world*  *-Know how the lives of wealthy people were different from the lives of poorer people.* | **The Mayans** **Summer Two**  a non-European society that provides contrasts with British history – one study chosen from: early Islamic civilization, including a study of Baghdad c. AD 900; Mayan civilization c. AD 900; Benin (West Africa) c. AD 900-1300.  -*Know about the impact that the Mayan Civilization had on the world*  *-Know why they were considered an advanced society in relation to that period of time in Europe* | |
| **D.T** | | Design  Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups  Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design  Make  Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately  Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities  Evaluate  Investigate and analyse a range of existing products  Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work  Understand how key events and individuals in design and technology have helped shape the world  Technical knowledge  Apply their understanding of how to strengthen, stiffen and reinforce more complex structures  Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]  Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]  Apply their understanding of computing to program, monitor and control their products.  Design  Come up with a range of ideas after collecting information from different sources  Produce a detailed step by step plan  Explain how a product will appeal to a specific audience  Design a product that requires pulleys or gears  Make  Use a range of tools and equipment competently  Make a prototype before making a final version  Make a product that relies on pulleys or gears  Evaluate  Suggest alternative plans;outlining positive feature and draw backs  Evaluate appearance and function against original criteria  Technical Knowledge  Links scientific knowledge to design by using pulleys and gears  Use more complex IT program to help enhance the quality of the product produced | Food Technology  Understand and apply the principles of a healthy and varied diet  Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques  Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.  Be both hygienic and safe in the kitchen  Know how to prepare a meal by collecting the ingredients in the first place  Know which season various foods are available for harvesting | | Design  Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups  Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design  Make  Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately  Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities  Evaluate  Investigate and analyse a range of existing products  Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work  Understand how key events and individuals in design and technology have helped shape the world  Technical knowledge  Apply their understanding of how to strengthen, stiffen and reinforce more complex structures  Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]  Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]  Apply their understanding of computing to program, monitor and control their products.  Design  Come up with a range of ideas after collecting information from different sources  Produce a detailed step by step plan  Explain how a product will appeal to a specific audience  Design a product that requires pulleys or gears  Make  Use a range of tools and equipment competently  Make a prototype before making a final version  Make a product that relies on pulleys or gears  Evaluate  Suggest alternative plans;outlining positive feature and draw backs  Evaluate appearance and function against original criteria  Technical Knowledge  Links scientific knowledge to design by using pulleys and gears  Use mre complex IT program to help enhance the quality of the product produced |
| **Art** | | To create sketch books to record their observations and use them to review and revisit ideas  To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]  Great artists, architects and designers in history  Use lines to produce texture  Experiment with shading to create mood and feeling  Experiment with media to create emotion in art | To create sketch books to record their observations and use them to review and revisit ideas  To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]  Great artists, architects and designers in history  Know how to use shading to create mood and feeling  Know how to organise line,tone,shape and colour to represent figures and forms in movement  Know how to create an accurate print design following given criteria | | Great artists, architects and designers in history  Research the work of an artist and use their work to replicate a style |
| **P.E** | | **Gymnastics and Dance**  Develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]  Perform dances using a range of movement patterns  Compare their performances with previous ones and demonstrate improvement to achieve their personal best.  -create complex extended sequences  -combine action, balance and shape  - perform consistently to different audiences  -pick up on something a partner does well and also on something that can be improved  -know why own performances was better or not as good as their last. | **Competitive Game**  Play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending  Compare their performances with previous ones and demonstrate improvement to achieve their personal best.  -gain possession by working in a team and pass in different ways  -choose a specific tactic for defending and attacking  -use a number of techniques to pass, dribble and shoot | | **Athletics**  Develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]  Compare their performances with previous ones and demonstrate improvement to achieve their personal best.   * Show control when taking off and landing * Throwing with increasing accuracy * Combine running and jumping |

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| **R.E** | **Why do some people believe God exists**  Outline clearly a Christian  understanding of what God is  like, using examples and  evidence (A2).   Give examples of ways in which  believing in God is valuable in  the lives of Christians, and ways  in which it can be challenging  (B2).   Express thoughtful ideas about  the impact of believing or not  believing in God on someone’s  life (B1).   Present different views on why  people believe in God or not,  including their own ideas (C1). | **What would Jesus do? Can people live by the values of**  **Jesus in the twenty-first century?**  Outline Jesus’ teaching on how his  followers should live (A2).   Offer interpretations of two of Jesus’  parables and say what they might teach  Christians about how to live (B3).   Explain the impact Jesus’ example and  teachings might have on Christians today  (B1).   Express their own understanding of what  Jesus would do in relation to a moral  dilemma from the world today (C3).  **If God is everywhere, why go to a place of**  **worship?**  Make connections between how believers feel  about places of worship in different traditions  (A3).  Select and describe the most important  functions of a place of worship for the  community (B3).  Give examples of how places of worship support  believers in difficult times, explaining why this  matters to believers (B2).  Present ideas about the importance of people in  a place of worship, rather than the place itself | **What does it mean to be a Muslim in Britain today?**  Make connections between  Muslim practice of the Five  Pillars and their beliefs about  God and the Prophet  Muhammad (A2).   Describe and reflect on the  significance of the Holy Qur’an  to Muslims (B1).   Describe the forms of guidance  a Muslim uses and compare  them to forms of guidance  experienced by the pupils (A2).   Make connections between the  key functions of the mosque  and the beliefs of Muslims (A1). |
| **Languages** | **Ourselves Celebration**  Listen attentively to spoken language and show understanding by joining in and responding  Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words  Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help\*  Speak in sentences, using familiar vocabulary, phrases and basic language structures  Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases\*  Present ideas and information orally to a range of audiences\*  Read carefully and show understanding of words, phrases and simple writing  Appreciate stories, songs, poems and rhymes in the language  Broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary  Write phrases from memory, and adapt these to create new sentences, to express ideas clearly  Describe people, places, things and actions orally\* and in writing Languages – key stage 2 3 Understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English   * **Name and describe people, a place and an object** * **Give response using a short phrase** * **Write phrases from memory** * **Write 2-3 short sentences on a familiar topic** | **School Weather**  Listen attentively to spoken language and show understanding by joining in and responding  Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words  Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help\*  Speak in sentences, using familiar vocabulary, phrases and basic language structures  Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases\*  Present ideas and information orally to a range of audiences\*  Read carefully and show understanding of words, phrases and simple writing  Appreciate stories, songs, poems and rhymes in the language  Broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary  Write phrases from memory, and adapt these to create new sentences, to express ideas clearly  Describe people, places, things and actions orally\* and in writing Languages – key stage 2 3 Understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English   * **Read and understand a short passage** * **Explain the main points in a short passage** * **Read a short passage independently** * **Use a bilingual dictionary or glossary to look up new words** * **Start to speak, using a full sentence** | **Hobbies Holidays**  Listen attentively to spoken language and show understanding by joining in and responding  Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words  Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help\*  Speak in sentences, using familiar vocabulary, phrases and basic language structures  Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases\*  Present ideas and information orally to a range of audiences\*  Read carefully and show understanding of words, phrases and simple writing  Appreciate stories, songs, poems and rhymes in the language  Broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary  Write phrases from memory, and adapt these to create new sentences, to express ideas clearly  Describe people, places, things and actions orally\* and in writing Languages – key stage 2 3 Understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English   * **Write about what they like/dislike about a familiar topic** * **Have a short conversation, saying 3 to 4 things** |
| **Music** | *National curriculum objectives*  Pupils should be taught to:  Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression  -maintain own part whilst others are performing their part  Improvise and compose music for a range of purposes using the inter-related dimensions of music  Compose music which meets specific criteria  Choose the most appropriate tempo for a piece of music  Listen with attention to detail and recall sounds with increasing aural memory  Repeat a phrase from music after listening intently  Use and understand staff and other musical notations  Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians  Describe, compare and evaluate music using musical vocabulary  Explain why they think music is successful or unsuccessful  Develop an understanding of the history of music.  Contrast the work of a famous composer with another and explain preferences | | |