

Year Five	Autumn Term		Spring Term	Summer Term		
Science	<u>Mixtures and separations</u> Children will explore different types of mixtures and the different methods that can be used to separate them. They will dissolve a range of substances, identify different solutions and investigate how temperature affects the time taken to dissolve. Children will also design and create a water filter, sieve soil and evaporate solutions.	<u>Properties and changes of materials</u> Children will broaden their experience of the properties of materials, investigate hardness, transparency and conductivity and consider how these properties influence the uses of materials. They will explore reversible changes, including dissolving and changes of state and compare these to irreversible changes, including rusting, burning and mixing vinegar and bicarbonate of soda.	<u>Earth and space</u> Children will explore some of the key celestial bodies in our solar system, learn the names and compare their movements. They will discover the relationship between the Earth's rotation and day and night, making models to represent their knowledge. Children will make their own sundials and consider how and why our ideas about the universe have changed so much over history.	<u>Life cycles and reproduction</u> Children will study different animals' life cycles and learn about the significance of reproduction for a species' survival. They will calculate the probability of male and female turtles hatching and grow plants to compare asexual and sexual reproduction. They will also compare fertilisation across different animals and explore the needs of a foetus.	<u>Unbalanced forces</u> Children will use their prior knowledge of contact forces to explore gravity, air resistance and water resistance in more depth and consider the effect of these forces being imbalanced.	<u>Human timeline</u> Children will study human development and changes, identify key stages and consider what data may help determine if a child is growing normally. They will describe how puberty affects girls and boys and produce graphs to record how gestation periods vary across different animals.

Design Technology	<u>Electrical Systems: Doodlers</u> Children will explore series circuits further and introduce motors. They will explore how the design cycle can be approached at a different starting point, by investigating an existing product, which uses a motor, to encourage pupils to problem-solve and work out how the product has been constructed, ready to develop their own.	<u>Mechanical Systems: Making a Pop-Up Book</u> Children will create a four-page pop-up storybook design incorporating a range of mechanisms and decorative features, including structures, levers, sliders, layers and spacers.	<u>Food: Cooking and Nutrition Developing a Recipe</u> Children will research and modify a traditional Bolognese sauce recipe to make it healthier. Children will cook their healthier versions, making appropriate packaging and learn about farming cattle.
Art and Design	<u>Sculpture and 3D: Interactive Installation</u> Children will use inspiration of historical monuments and modern installations, to plan, research and draw a sculpture to fit a design brief. Children will investigate scale, the display environment and possibilities for viewer interaction with their piece.	<u>Drawing: I Need Space</u> Children will develop ideas more independently, and consider the purpose of drawings as they investigate how imagery was used in the 'Space Race' that began in the 1950s. They will combine collage and printmaking to create a piece in their own style.	<u>Painting and Mixed Media: Portraits</u> Children will be investigating self-portraits by a range of artists and use photographs of themselves as a starting point for developing their own unique self-portraits in mixed media.
Geography	<u>Mountains</u> Children will discover the climate of mountain ranges and consider why people choose to visit the Alps. They will focus on Innsbruck and identify the human and physical features that attract tourists. They then will apply their learning to investigate tourism in the local area, mapping recreational land use and presenting their findings.	<u>Oceans</u> Children will explore the significance of our oceans, including how humans use and impact them and how this has changed over time. Children will study the Great Barrier Reef and how plastic and pollution is damaging this marine environment, before considering positive environmental changes that can be made including making eco-friendly choices. They will use fieldwork skills to investigate the amount and type of litter in their nearest marine environment.	<u>Deserts</u> Children will explore biomes and their various characteristics. They will study deserts, mapping those around the world but focusing on those in North America. Children will learn about the physical features of a desert and consider how humans interact with and have adapted to living in the desert.
History	<u>The Vikings</u> Children will explain where Vikings came from and why they invaded Britain. They will learn how to sequence events according to their significance for groups of people, find evidence and name Viking	<u>The Tudors</u> Children will compare Henry VIII and Elizabeth I and learn about the changing nature of monarchy. They will learn how both monarchs tried to	<u>Ancient Greece</u> Children will investigate the city states of Athens and Sparta, identifying the similarities and differences between them. Using different sources of evidence, they will learn about democracy and compare this to

	trade routes. They will also learn why these trading routes were important to the Vikings, identify differences between Viking sagas and also evaluate the importance of their achievements.	control the public perception of themselves using portraits and royal progresses. Using Tudor inventories to investigate whether people were rich or poor, children will learn about what life was like for people living in Tudor times.	the ways in which other civilisations are governed. Considering the legacy of the Ancient Greeks, children will learn about the Olympic games, architecture, art and theatre.			
RE	<p><u>Caring for Others, Animals and the Environment</u> Marriage ceremonies</p> <p><u>Sharing and Being Generous</u> The story of Mary and Martha Early church sharing Langar and Sewa Volunteer work</p>	<p><u>Being Loyal and Steadfast</u> Charity work</p> <p><u>Being Hopeful and Visionary</u> Advent and hope Hudaybiyya and peace</p>	<p><u>Being Open, Honest and Truthful</u> The story of the Fib Jesus' teachings</p> <p><u>Being Attentive to the sacred as well as the precious</u> Quiet time The ability to reason</p>	<p><u>Participating and Willing to Lead</u> Leadership and community involvement</p> <p><u>Being Modest and Listening to Others</u> The story of Jesus washing disciples' feet and contemporary foot washing The Last Supper and explanation Jesus' humility Prophet Isa's (Jesus) ascension</p>	<p><u>Being Temperate, Self-Disciplined and Seeking Contentment</u> Turning the other cheek Jesus' reaction to injustice meditation Accepting personal responsibility Restraining from criticism of others</p> <p><u>Being Accountable and Living with Integrity</u> Story of Jesus and the woman Robert Ingersoll - making others happy Treating cows as sacred The story of Qarun</p>	<p><u>Being Thankful</u> By words, actions, worship and money</p> <p><u>Being Imaginative and Exploratory</u> Expressions in art and dance</p>
Skills Builder	<p><u>Number Games</u> In this unit children will explore and develop their creativity and maths skills by designing and making their own maths inspired board game in teams.</p> <p><u>Essential Skills</u> Staying Positive, Creativity and Problem Solving</p>	<p><u>Breaking News</u> In this unit children will work in teams to produce written and non-written forms of reporting journalism.</p> <p><u>Essential Skills</u> Listening, Presenting and Teamwork</p>	<p><u>Active Minds</u> In this unit children will plan and launch a new Fitness Session in their school that will inspire activeness and encourage students to have 'Active Minds.'</p> <p><u>Essential Skills</u> Staying Positive, Aiming High and Teamwork</p>			
Relationship and Health Education	<p><u>Keeping Relationships Healthy and Safe</u> Children will explore the value of friendships. They will understand what peer pressure is and how to manage this. Children will explore conflict resolution. Children will learn to recognise ways in which a relationship can be unhealthy and who to talk to if they need support. They will learn that online relationships can be positive and negative and know how to stay safe online and to whom to report concerns. Children will learn to understand</p>					

	how good physical health can support positive mental and emotional health. They will explore how to build resilience. Children will learn about puberty and understand that relationships and responsibilities change as you move into adulthood.					
Paths	<u>Unit 1: Getting Started and Introduction</u> Children will further embed their co-operative learning skills and understand the importance of co-operation in creating a positive environment. They will revisit controlling anger. <u>Unit 2: Problem Solving</u> Children will further embed and practice their problem solving skills, making good decisions, trying out solutions, looking at obstacles, evaluating and considering consequences.		<u>Unit 3: Goals and Identity</u> Children will learn about goal setting. They will practice setting goals and making a plan to achieve the goal as well as overcoming obstacles. <u>Unit 4: Making and Keeping Friends</u> Children will explore the feelings associated with friendship. Children will learn about the effects of teasing and explore how to manage feelings of resentment and forgiveness.		<u>Unit 5: Being Responsible and Caring for Others</u> Children will deepen their understanding of discrimination and stereotypes, being rejected or excluded. They will explore biographies and events which highlight these aspects of behaviour.	
Music	<u>Ancient Egypt</u> Children will create a piece of Egyptian Farwell Music, using hieroglyphics and stave notation.	<u>Blues</u> Children will learn about the key features of Blues music. They will learn to play the first line of the 12-bar Blues and the Blues scale.	<u>South and West Africa</u> Children will learn to sing a traditional African song unaccompanied. They will learn to play chord progression using tuned percussion or vocals.	<u>The Holi Festival</u> Children will use images of the Holi Festival to learn that music can be represented with colours. They will represent a piece of music as a graphic score.	<u>Looping and Remixing</u> Children will learn how to play a simple looped rhythm from notation. They will create a piece of music using prewritten loops.	<u>Musical Theatre</u> Children will understand the history of musical theatre. They will create a musical theatre scene, rehearsing and performing.
Computing	<u>Coding (CS)</u> Children will use sequence, selection and repetition in programs, work with variables and various forms of input and output. <u>Online Safety (DL)</u> Children will use technology safely, respectfully and responsibly; recognise acceptable/unacceptable e behaviour: identify a range of ways to report concerns about content and contact. <u>Spreadsheet (IT)</u> Children will select, use and combine a variety of software to design and create a range of systems		<u>Databases (IT)</u> Children will select, use and combine a variety of software to design and create a range of systems that accomplish given goals, including collecting, analysing, evaluating data and information. <u>Game Creator (IT)</u> Children will design, write and debug programs that accomplish specific goals, including controlling or simulating		<u>Concept Maps (IT)</u> Children will select, use and combine a variety of software on a range of digital devices to design and create a range of content that accomplish given goals. <u>Word Processing (IT)</u> Children will learn the key features of word processing package. They will develop skills needed to edit a document, including text formatting, images, tables and layouts. <u>Using External Devices (IT)</u>	

	and content that accomplish given goals, including collecting and presenting information.	physical systems; solve problems by decomposing them into smaller parts. 3D Modelling (CS/IT) Children will select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.	Children will begin to write a program on a computer that responds with an externally connected device. They explore making use of sensors to trigger responses.			
PE	<p>Fitness Children will take part in a range of fitness challenges to test, monitor and record their data.</p> <p>Cricket Children will develop the quality of striking and fielding skills and their understanding of cricket. They will learn how to play the different roles of bowler, wicket keeper, fielder and batter.</p>	<p>Dance Children will adapt the way they use actions, dynamics and relationships in dance, performing in different styles.</p> <p>Football Children will develop skills to dribble, pass and shoot with control. They will learn attack and defence strategies.</p>	<p>Dodgeball Children will use a range of skills in the game. They will use tactics to help their team.</p> <p>Tag Rugby Children will develop key skills and principles such as defending, attacking, throwing, catching, running and dodging whilst playing tag rugby.</p>	<p>Yoga Children will learn to use their breath and yoga poses to improve flexibility.</p> <p>OAA Children will apply their knowledge of reading maps to navigate around the school's markers, set the map and use different types of orienteering.</p>	<p>Gymnastics Children will create longer sequences individually, with a partner and a small group. They will perform cartwheels and handstands.</p> <p>Tennis Children will learn to play cooperatively with a partner, using and applying tactics.</p>	<p>Volleyball Children will focus on developing the skills they need to play continuous rallies in volleyball.</p> <p>Athletics Children will learn to run over longer distances, sprint, relay, long jump, triple jump, shot put and javelin.</p>
French	<p>French Monster Pets Children will revise noun gender, using the correct article to go with nouns. They will make adjectives agree with the noun they describe, placing the adjectives in the correct place. They will write a description of their Monster Pet.</p>	<p>Space Exploration Children will develop their listening and language detective skills. They will use figurative language and develop sentence structure by adding adjectives and prepositions.</p>	<p>Shopping in France Children will learn to construct high numbers in French. They will use food-related vocabulary, building on their understanding of sentence structures, questions and phrases.</p>	<p>French Speaking World Children will learn about French speaking countries. They will learn to give and follow directions in French, discussing climate and using</p>	<p>Verbs in a French Week Children will identify the infinitive form of verbs and subject pronouns, grouping French verbs and learning that verbs can be regular and irregular.</p>	<p>Meet my French Family Children will learn family and relations vocabulary. They will use the possessive adjective: 'my' and 'how' to express likes and dislikes. They will write and perform a</p>

				comparative language.		presentation about their family.
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