

Year Five Long Term Plan

Subject	Autumn	Spring	Summer
Science	Materials: Mixtures and separations Materials: Mixtures and separation Pupils explore different types of mixtures and the different methods that can be used to separate them. They dissolve a range of substances, identify different solutions and investigate how temperature affects the time taken to dissolve. They design and create a water filter, sieve soil and evaporate solutions. Materials: Properties and change. Broadening their experience of the properties of materials, children investigate hardness, transparency and conductivity and consider how these properties influence the uses of materials. They explore reversible changes, including dissolving and changes of state. Children compare these to irreversible changes, including rusting, burning and mixing vinegar and bicarbonate of soda.	Forces and space: Earth and space Children explore the movement of the celestial bodies in our Solar System, including the Earth and other planets and the Moon. They discover how the rotation of the Earth causes night and day and how sundials work. Pupils find out about the uses of satellites and the problem with space junk. Living things and their habitats: Life cycles and reproduction Comparing the life cycles of plants, mammals, birds, amphibians and insects. Investigating asexual reproduction in plants and comparing sexual and asexual reproduction.	Forces and space: Unbalanced forces Building on their knowledge of contact and non-contact forces, children explore gravity, friction, air resistance and water resistance in more depth and consider the effect of these forces being unbalanced. They plan investigations to further their understanding of the effects of these forces. Pupils test their ideas using models and compete to build the most effective pulley system. Animals: Human Timeline Studying human development and changes, children identify key stages and consider what data may help determine if a child is growing normally. They describe how puberty affects girls and boys and produce graphs to compare how gestation periods vary across different mammals, including humans. Making connections: Does the size of an asteroid affect the size of its impact crater? (1 lesson) Bringing together pupils' learning from multiple Science units, helping them to make connections between the key concepts and skills.
History	British history 4: Were the Vikings raiders, traders or something else? Exploring the Viking age by learning about Viking raids, trade, settlement and the struggle for control of Britain. Pupils develop their chronological understanding, investigate a range of historical sources, including oral histories, and use historical enquiry to consider whether the Vikings were raiders, traders or settlers.	What is the legacy of the Ancient Greek civilisation? Exploring ancient Greece by comparing the city-states of Athens and Sparta and investigating how they were governed. Pupils examine different historical sources to learn about democracy and discover the lasting legacy of the ancient Greeks through the Olympic Games, architecture, art and theatre.	British history 5: What was life like in Tudor England? Investigating Tudor England by exploring portraits, progresses and other historical sources to learn about the changing role of the monarchy. Pupils examine how Henry VIII and Elizabeth I used propaganda to shape public opinion and use Tudor inventories to discover what life was like for ordinary people.
Geography	What is life like in the Alps? Investigating tourism in mountain environments by learning about the climate and features of the Alps, with a focus on Innsbruck. Pupils examine the human and physical features that attract visitors and apply their	Would you like to live in the desert? Examining hot desert biomes by mapping the world's major deserts and investigating the physical features of the Mojave Desert. Pupils consider how people use desert	Why do oceans matter? Examining the importance of oceans by learning how people use and affect marine environments. Pupils investigate the Great Barrier Reef, consider the impact of

	understanding by researching and mapping tourism in their local area. Note: Lesson 4 involves fieldwork and may take longer than one hour.	environments and explore the environmental challenges and threats they face. Sustainability lesson and World Earth Day Explain what fast fashion is and why it harms the environment.	pollution and plastic waste and use fieldwork to explore environmental issues in their local marine environment while identifying ways to make more sustainable choices. Note: Lesson 5 involves fieldwork and may take longer than one hour.
Art and Design	Sculpture and 3D: Interactive installation 6 lessons Inspired by historical monuments and modern installations, pupils plan by researching and drawing a sculpture to fit a design brief. They investigate scale, the display environment and possibilities for viewer interaction with their piece.	Drawing: Depth, emotion and movement 7 lessons Investigating how drawing can express emotion, movement and depth, inspired by the work of Charlie Mackesy and Elizabeth Catlett. Pupils use expressive lines, shading and printmaking techniques to develop compositions that convey feeling and energy before creating a final piece influenced by their own ideas and the artists studied.	Painting and mixed media: Portraits 6 lessons Investigating self-portraits created by a range of artists and using photographs as inspiration for mixed-media artwork. Pupils explore how artists represent identity and expression before developing and creating their own unique self-portraits using a range of materials and techniques.
Design and Technology	Electrical systems: Wobble bots Building on existing knowledge of circuits by introducing motors and exploring how they create movement in products.	Mechanical systems: levers and pulleys Investigating the history, mechanics and uses of gears and pulleys. Pupils build a gear-and-pulley mechanism before applying their understanding to design an eco-bike.	Structure: Bridges Investigating different types of bridges and how structural strength is affected by shape and design. Pupils apply woodworking tools and techniques to design, build and test the durability of their own bridge structure.
Music	Music in nature: Chords and melodies Drawing inspiration from the power of nature, pupils compose short melodies to reflect different moods of the sky. They experiment with pitch, dynamics and harmony, using simple chords to add depth and atmosphere to their performances. India (Instrumental lessons) Learning and understanding the history and key features of Bollywood films, how ambient sounds can be used to enhance a film score, practising staff notation and performing a film sequence using instruments and movement.	West African Rhythms: Create, play and perform Exploring the rhythms of West Africa, pupils experience the energy of traditional ensemble music. They learn how rhythmic patterns fit together and take responsibility for different parts, combining rhythms collaboratively to create layered textures. North America (Instrumental lessons) Exploring minimalism and the music of composers like Philip Glass and Steve Reich, children learn to identify music features such as interlocking patterns and layered textures. They learn to sing and play the piece 'Interlocking patterns' as they apply their skills reading staff notation and playing tuned percussion.	Stage and song: Storytelling through music Exploring musical theatre and how music helps to tell stories through solos, duets and ensemble performances. Pupils explore how composers use musical elements to create mood and develop narrative before extending their vocal skills through singing in 3/4 time and performing across a wider vocal range. Samba Sounds: Rhythm and Groove Discovering the energy and traditions of Brazilian samba and its role in Carnival celebrations. Pupils learn about samba instruments and rhythmic patterns before working collaboratively to rehearse and perform as part of their own samba band.
Computing	Computing and network systems Search engines Investigating how search engines work and developing effective searching skills to find relevant and accurate information online. Pupils evaluate the reliability of online content, explore how web crawlers organise information	Data Handling Mars Rover Exploring how the Mars Rover collects, stores and transmits data back to Earth using binary code and computer systems. Pupils investigate computer architecture, learn how binary represents different types	Stop-Motion animation Developing an understanding of animation by exploring stop-motion techniques and how moving images are created. Pupils plan, create and edit their own stop-motion project, applying digital skills to produce a finished animation.

	and apply their understanding by creating an informative poster. Programming 1 Music Developing programming and music skills through creating digital sounds, beats and melodies using coding techniques. Pupils apply their understanding by using nested loops to create rhythms and compose a soundtrack with layered musical patterns.	of data and apply their understanding to read and interpret binary numbers and text. Online safety lessons unit to be taught during safer internet week in February Programming 2 Microbit Exploring how to program the BBC micro:bit by tinkering with software, creating animations and investigating coding structures. Pupils apply their understanding by designing and programming digital tools, including a pedometer and scoreboard, for specific purposes.	Skills Showcase Mars Rover 2 Investigating how computers represent and process digital images through pixels, binary code and image compression. Pupils apply their understanding by creating pixel artwork, experimenting with 3D design tools and designing a functional Mars Rover tyre using Tinkercad.
PE	Orienteering Football Dance	Gymnastics Indoor athletics Tag Rugby Tennis	Swimming (10 lessons) Cricket Athletics Rounders
MFL (French)	French monster pets Reviewing noun gender, article-noun agreement and adjective placement while exploring monster and body part vocabulary; identifying key facts using cognates and other language detective skills; writing and presenting paragraphs about a 'Fantastic French beast' creation. Shopping in France Pupils learn to construct high numbers in French, develop food-related vocabulary through games, stories and role-play and build on their understanding of sentence structures, questions and phrases, equipping themselves with language they could use when shopping in France. They also develop their language detective skills, facing an entirely unfamiliar authentic French text.	Verbs in a French week Pupils identify the infinitive form of verbs, and subject pronouns, then group French verbs into -er, -ir and -re categories before learning the -er regular verb endings, practising with a set of regular action verbs; they discover that not all verbs are regular and learn the foundation verbs 'avoir' and 'être', and finally produce a short piece of creative writing to demonstrate their learning, which they present to the class.	Meet my French family This unit draws on vocabulary and grammar learned in Years 3, 4 and 5, introduces family and relations vocabulary, the possessive adjective, my, and how to express likes and dislikes. The children learn that they can compose a written composition by recycling and re-ordering known words and phrases and the unit culminates in pupils producing a piece of written work, in French, describing members of a family, their looks, their ages, their birthdays and their likes and dislikes.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
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Religious Education	Strand: Community and Identity Key Question: How do rites of passage shape the lives of different Christians? Religion: Christianity	Strand: Reality and Truth Key Question: Does Wisdom look the same for every Christian? Religion: Christianity	Strand: Reality and truth (Philosophy) Key Question: What does it mean to live a good life? Religion: Religious and Non-religious worldviews Videos "How does your belief (in God) affect your daily life?" – Buddhism & Humanist view	Strand: Beliefs and Questions Key Question: What do Christians believe about the death of Jesus? Religion: Christianity	Strand: Beliefs and Questions (Theology) Key Question: Why is it important to Muslims that Muhammad is known as the Seal of the prophets? Religion: Islam	Strand: Community and Identity (Human and Social Science) Key Question: How far does the mosque contribute to the Muslim concept of Ummah? Religion: Islam
Personal, Social, Emotional Sex and Relationships Education	Jigsaw - Being Me in My World Growth Mindset – Passport to learning Kapow Wellbeing Unit lesson 1 Zones of Regulation Autumn Term lessons 1-6	Jigsaw – Celebrating Differences Growth Mindset – Too old to.. Kapow Wellbeing Unit lesson 2 Zones of Regulation Autumn Term lessons 7-12	Jigsaw – Dreams & Goals Growth Mindset – What makes a great teacher? Kapow Wellbeing Unit lesson 3 Zones of Regulation Spring Term Lessons 1-6	Jigsaw – Healthy Me Growth Mindset -Brain Power! Kapow Wellbeing Unit lesson 4 Zones of Regulation Spring Term lessons 6-11	Jigsaw – Relationships Project 10 Growth Mindset – Famous Failures Zones of Regulation consolidation	Jigsaw- Changing Me Sex Education-Lesson 4: Conception (right to withdraw) Project 10 Growth Mindset – The iceberg illusion Kapow Wellbeing Unit lesson 5 Zones of Regulation consolidation
Collective Worship	Harvest Famine Aid – When I needed a neighbour – I was hungry and thirsty Matthew 25:35	Christmas The wise men		Easter Lead Eucharist service		