

Year 5

Subject area	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Big Question	How do we know what life was like during the Early Islamic Civilisation?	Why are people inspired to explore space?	How can we make the best use of our natural resources?	Would you like to live in the Lake District?	How have people who break the law been treated differently in the past?	Does every crime deserve a punishment?
STEM	Maths					
	See separate document					
	Science					
	Forces Children will learn to explain the role of gravity on objects on Earth. They will identify the effects of air resistance, water resistance and friction. They will also learn how some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	Earth and space Children will describe the movement of the Earth and other planets, relative to the sun in the solar system and describe the movement of the moon relative to the Earth. They will use Earth rotation to explain day and night due to the apparent movement of the sun across the sky.	Living things and their habitats (animals) Focusing on life cycles, children will compare those of a mammal, an amphibian, an insect and a bird. They will describe the life process of reproduction in some plants and animals.	Animals including humans Looking at gestation periods and developmental milestones, children will learn about the changes as humans develop from birth to old age.	Properties and changes of materials Children will compare and group together everyday materials based on their properties. They will learn about solubility and use their knowledge of solid, liquid and gas to decide how mixtures might be separated including through filtering, sieving and evaporation. Investigative work will support learning about reversible and irreversible changes.	
	Computing					
	Systems and searching After beginning with a focus on online safety, children will learn how computers can be connected together to form systems and recognise the role of computer systems in our lives. They will identify how to use a search engine and find out how search engines select and rank results, recognising why this is important.	Video production Children will explain what makes a video effective and capture videos using a range of devices. They will create storyboards; improve and edit videos while considering the impact of the choices made.	Selection in quizzes Children will explain how selection is used in computer programmes and relate conditional statements and outcomes. They will design, create and evaluate a programme that uses selection.	Flat-file databases Children will use a form to record information and compare paper and computer-based databases. They will outline how you can answer questions and explain the tools to select specific data. In addition, they will explain that computer programs can be used to compare data visually and use real-world databases to answer questions.	Introduction to vector graphics Children will identify that drawing tools can be used to produce different outcomes and create vector drawings by combining shapes. They will also use tools to achieve a desired effect and group objects to make them easier to work with.	Selection in physical computing Children will control a simple circuit connected to a computer and write a programme that includes count-controlled loops. They will explain how a loop is developed and design a physical project that includes selection and programming controls.
	D.T.					
		Mechanisms – Pulleys or gears Looking at a range of products, children will use observational drawings and questions to develop their understanding of products with pulley systems. They will learn about different sized pulleys and then learn to incorporate a pulley system into an electrical circuit. After constructing wooden frames, children will decide how to locate the components on their electric toy car, to make it appeal to the intended user.		Food: Celebrating culture and seasonality Children will find out about bread associated with different cultures both in the UK and around the world. After practising the techniques needed for bread-making, they will develop their own bread rolls, thinking about how seasonal ingredients can be used.		Structures - frame structures Children will investigate and make annotated drawings of a range of portable and permanent frame structures. After researching using triangulation to add strength to a structure, they will work with paper straws to build 3D structures. They will develop and make a small-scale frame structure, working with accuracy and evaluating.
	History					

Humanities	Early Islamic Civilisation After gaining an understanding about when and where the Early Islamic Civilisation developed, children will explore and discuss reasons it is important to study the Islamic civilisation in this period. They will learn about the city of Baghdad and the daily lives and beliefs of its citizens, including the importance of trade. Alongside will run work around what different sources of evidence tell us, and their reliability.	Space Race and Hidden Figures Children will develop their understanding of chronology through positioning important events on a timeline. They will then focus in on the role of a group of female global majority scientists within NASA and place these in the historical context of the USA in the 20th Century.			Crime and punishment The children will use their inquiry skills to explore the development of Crime and Punishment while investigating how societies have managed criminals. They will analyse historical evidence that illuminates punishments from 800 years ago. They will investigate how medieval justice was served, while exploring the evolution of crime and punishment between 1500 and 1750 and delve into shifting societal attitudes and their impact on penalties. Through these investigations, they will learn to decipher how the past is represented and interpreted, gaining insights into historical continuities and shifts in the realm of Crime and Punishment.	Crime and punishment The children continue their exploration of Crime and Punishment further investigating the evolution of punishments, from the grim realities of the 18th century to modern times; pondering the reasons behind the shift to more brutal penalties. Through analysis of historical evidence, they will explore the ever-changing landscape of crime prevention and punishment. The children will investigate how the methods of catching and penalising criminals have evolved over the last century, scrutinising the impact of these changes on society. Thus understanding why the 19th century was a pivotal period of transformation in the realm of Crime and Punishment.
	Geography					
	Early Islamic Civilisation As part of their history topic, children will explore the importance of location to the Early Islamic Empire.		Natural resources Children will learn about natural resources and land use in Britain. They will look at the many ways land is used, how it has changed and the factors limiting the ways in which it can be used. They will find out about the natural resources that are burned to produce electricity, and compare these with renewable sources of energy. A focus on wood, steel, glass and concrete will allow children to understand different uses of natural resources, with a focus on the use of natural resources in the home. Case study / comparison: California TBC	UK focus: Lake district Use https://www.lakedistrict.gov.uk/ Following on from their learning about natural resources, and after learning about the counties of the UK, children will focus in on one area of the UK: the Lake District. Learning will include what makes this area unique and how it's physical and human geography compares to that of Greater London, as well as how this geography impacts the lives of the people who live in the Lake District. Some areas for learning and discussion will include: the harnessing of natural resources at Thirlmere Reservoir; the impact of the Industrial Revolution on the landscape; the role of farming in the area; the Lake District Natural Park and tourism.		
	RE					
	Islam: Ramadan and Id ul Fitr After recapping prior learning about the Five Pillars of Islam, children will learn about the importance of the month of Ramadan to Muslims, including fasting and worship. They will learn about the celebration of Id ul Fitr at the end of Ramadan and the importance of charity at Id.	Islam: Hajj and Id ul Adha Children will listen to and discuss the story of Prophet Ibrahim (pbuh) and his son Ismail (pbuh) rebuilding the Ka'aba. They will discuss Qur'anic quotes about Hajj and learn about Hajj requirements. They will learn about Id ul Adha, the festival that takes place the day after the gathering of pilgrims on Mount Arafah.	Sikhism 3: The Gurdwara and Guru Granth Sahib Children will learn about the Gurdwara as the centre for the Sikh community and a place of prayer and worship. They will find out about the Guru Granth Sahib, the Sikh holy book and final everlasting Guru, including how it is treated, its content and its use.	Sikhism 4: Belonging to the Sikh community Learning about Sikhism will continue by finding out about Guru Gobind Singh, the last human Guru, who established the Khalsa and developed the 5 Ks. Children will learn about going through the Amrit ceremony to become a Khalsa'd Sikh.	Christianity 8: Jesus Human and Divine Children will learn about the Trinity, how Christians see God as Father, Son and Holy Spirit. They will recap learning about Christmas as the celebration of Jesus' birth. They will consider the importance of friendship when they hear about Jesus choosing 12 disciples. They will learn about Jesus' temptations, baptism, miracles and acts of healing, and consider the importance of Easter as the end of Jesus' life on Earth.	Christianity 9: Leading a Christian Life Children will learn about commitment, belonging and belief in the special presence of God during significant life events. They will consider examples of at least one person and one charitable organisation that exemplifies Christianity in action. This will include a visit from a local Christian to share how their life is led by faith.
	Art					

The Arts	Making Monotypes Children will learn what a Monotype is and can see how artists use monotypes in their work. They will study drawings made by other artists and identify particular marks they have used in their drawings. They will listen to a piece of poetry and think about how the piece evokes colours, lines, shapes and words in their head, and they will use these to create imagery which captures the mood of the piece of poetry. They will use their sketchbook to explore their ideas. They will use their mark making skills to create exciting monotypes, combining the process with painting and collage.		Typography and Maps Children will learn that Typography is the visual art of creating and arranging letters and words on a page to help communicate ideas or emotions. They will see how other artists work with typography and share their thoughts on the work. They will explore how they can create their own letters in a playful way using cutting and collage. They will reflect upon what they like about the letters that they have made. They will use sketchbooks for referencing, collecting and testing ideas, and reflecting. They will learn how to make their drawings appear visually stronger by working over maps or newspaper.		Exploring Sculpture: Making a mobile Children will explore the work of Alexander Calder. They will then explore the relationships between line, shape, form and colour when working in three dimensions. Pupils explore the relationships between design and fine art, and practise Design through Making. They have the opportunity to explore balance and counter balance, and learn to take creative risks and solve problems.	
	Music					
	Lessons alternate between steel pans and music technology Steel pans: Children be introduced to the steel pans as a significant part of Caribbean culture. They will learn to play music on the steel pans with increasing accuracy, control and expression, as part of an ensemble. Music technology: After learning about the history of music technology, children will use computer software to experiment with digital composition.		Lessons alternate between steel pans and music technology Steel pans: Children will continue to develop their playing of steel pans with increasing accuracy, control and expression, as part of an ensemble. Music technology: Children will use computer software to compose increasingly complex music, using samples and working to produce music within specific genres.		Lessons alternate between steel pans and music technology and Great Composers Steel Pans: This term, children will work towards a performance on the steel pans, rehearsing and refining what they have learnt this year. Great Composers: Children will learn about the history of the Great Composers, exploring their music and learning about popular Classical compositions. They will also learn about significant female and global majority composers.	
PSHE						
Wellbeing	Keeping Safe Peer Pressure (including Adults' and Pupils' Views) Looking at how we can be influenced and pressured to make unsafe choices. Simply RSHE lesson - Respectful, Kind Relationships topic Zones of Regulation Recap <i>Kilmorie Quality (Respect)</i>	Being Responsible Looking Out for Others (including Adults' and Pupils' Views) Looking Out for Others looks at the responsibility we have if we witness someone being bullied. Feelings and Emotions Anger (including Adults' and Pupils' Views) Anger looks at the ways in which we can manage our emotions when we are unable to do something we wanted to. <i>Kilmorie Quality (Resilience)</i>	Computer Safety Image Sharing (including Adults' and Pupils' Views) Looks at how we can be pressured into sending images and how to manage this. First Aid First Aid Part 1 and Part 2 This topic looks at basic life support techniques, such as the recovery position, CPR, and DRs ABC. <i>Kilmorie Quality (Collaboration)</i>	Growing and Changing Puberty (including Adults' and Pupils' Views) Puberty looks at the different changes boys and girls go through during puberty. Simply RSHE lesson - General Wellbeing topic <i>Kilmorie Quality (Honesty)</i>	Keeping Healthy Smoking (including Adults' and Pupils' Views) Smoking explores how someone can be pressured into smoking. A World Without Judgement Inclusion and Acceptance (including Adults' and Pupils' Views) Looks at some of the elements which help us to have a diverse community, strategies to overcome barriers and promote diversity and inclusion. Simply RSHE Lesson - Drugs, Alcohol, Tobacco & Vaping topic <i>Kilmorie Quality (Empathy)</i>	The Working World Enterprise (including Adults' and Pupils' Views) Enterprise looks at how children can help pay for items they would like. Simply RSHE Lesson - Being Safe topic <i>Kilmorie Quality (Independence)</i>
	P.E. (Outdoor/Indoor)					
	NB: In Year 5 and 6, indoor PE is done on a rotational basis as each class gets a term of dance					
	Quicksticks hockey Children will learn how to dribble the ball in different directions, over a variety of distances with some accuracy and power, in a game situation. They will be taught to perform a pass using their stick with some control and accuracy while moving into a space. The children will hit a moving ball with some accuracy. They will learn to strike the ball safely and with accuracy at goal; begin to understand how to defend against an opponent in a game situation while tackling and marking and will begin to use techniques learned in a game situation and to understand the key rules.	Football Working on ball control, children will stop a ball in different ways and dribble with control. They will practise tackling and intercepting. They will play longer passes and develop skills to kick past a goalkeeper with some accuracy. Alongside this, they will develop tactical and sportsperson-ship skills.	Badminton Children will recap their basic understanding of holding a shuttlecock and how it is different to a ball. They will also gain understanding of where to throw the flight to land in a designated area. They will be able to hold a badminton racket correctly and to show forehand and backhand shots with the use of the nets. Children will go on to having simple rallies and understanding the scoring system. Once these skills are taught, they will put all the different skills together to have mini games of badminton.	Netball Children will learn to select the correct pass and to move into a space to be able to receive the ball on the move while performing the correct footwork (jump stop, stride stop and pivot). They will be able to perform three different dodges (Drive dodge and double dodge); be able to defend a player and attempt to intercept a pass. They will develop their knowledge of how to shoot into netball posts and begin to use attacking and defending techniques learned in a game situation. Finally, the children will play mini and full matches and work together as a team being able to communicate with each other.	Athletics Children will learn a variety of different athletic activities based around sports day and will recap the acronym FAST. They will learn to accelerate quickly with speed and control in movement while pacing themselves when needed. They will recap their knowledge on throwing a javelin/vortex using a good stance, good height and distance. Children will perform jumps with balance, control and distance.	Rounders Children will focus on throwing and catching the ball while learning to make the correct decisions in a game situation. The children will be Introduced to a donkey drop bowl; will recap their batting technique, being able to hit the ball in different directions and will develop their knowledge of how to field the ball using a long barrier and attempting the run and scoop. The children will play rounders games and work as a team, discussing tactics of striking and fielding.

