

Latimer Curriculum Information for Parents: Year 5

Subject	Autumn Term	Spring Term	Summer Term
Science	<p>Properties and changes of materials: We experiment with different materials to test their rigidity, flexibility, elasticity as well as discover which materials make good thermal and electrical conductors and insulators. We dissolve solids in liquids to create solutions and look at how we can use evaporation and condensation to filter solutions back into solids and liquids.</p> <p>Forces: We observe the impact that gravity, air resistance, thrust, water resistance and friction have on stationary and moving objects. The children also learn about Galileo and Sir Isaac Newton.</p>	<p>Earth and Space: We learn about moons, planets and solar systems. The children learn about how the moon orbits the Earth and how this affects the phases of the moon. We discover how the Earth orbits the Sun and how this affects the seasons, days and nights.</p> <p>Living things and their habitats: The children learn about the lifecycle of plants and animals including fertilisation and reproduction. We look at the life of David Attenborough and the impact his career has had on the preservation and protection of wildlife.</p>	<p>Animals including Humans: We learn about the lifecycle of humans and introduce the concepts of pregnancy and puberty within that lifecycle from a scientific perspective. We compare the human lifecycles to other animal's lifecycles including the differences in gestation periods.</p>
PSHE	<p>Healthy minds: The children discuss what mental health is and learn what it means to have a healthy mind as well as learning about different ways to manage challenging times and techniques for mindfulness.</p> <p>ESafety: We learn how to stay safe online whilst looking the different ways that we can communicate with others and create an online identity whilst also exploring the impact of cyberbullying.</p> <p>Anti-bullying: We learn about the damaging impact that bullying can have and how we are responsible for our own behaviour and choices. The children learn about coping with different situations such as peer pressure.</p>	<p>Keeping safe: The children continue to learn about how to keep safe online. They learn about safety within relationships and the home.</p> <p>Careers: We look at earning money and the things that influence people's decisions on potential career choices.</p> <p>Identity: We explore diversity and gender stereotypes and discuss discrimination and prejudice surrounding identity.</p>	<p>Physical health: We discuss the use of photoshopping in the media and the harmful messages this can give people as well as the misleading messages given in food advertisement.</p> <p>Substance education: The children gain an understanding of legal and illegal drugs and the risks that come with taking them. They explore techniques to help resist situations of peer pressure.</p> <p>Relationships and sex education: In year 5, the children learn about the emotional and physical impacts of puberty in both boys and girls and the importance of personal hygiene.</p>
PE	<p>Gymnastics: We will develop balancing, rolling, jumping and inverted movements. We explore partner relationships such as canon and synchronisation and matching and mirroring.</p> <p>SAQ: The children will complete different exercises to improve their speed, agility and quickness.</p> <p>Netball: The children will work as a team to gain spatial awareness and cooperation skills.</p> <p>Fitness: Pupils will take part in a range of activities that explore and develop different areas of their health and fitness. They will learn different components of fitness including speed, stamina, strength, co-ordination, balance and agility.</p>	<p>Tennis: The children will practise their coordination and hitting skills.</p> <p>Dance: We will learn different styles of dance including rock n roll and learn about spacing and dynamics to improve the appearance of our dancing.</p> <p>Hockey: The children will practise dribbling and manoeuvring a ball with a hockey stick.</p> <p>Gymnastics: In gymnastics, pupils develop performance skills considering the quality and control of their actions.</p>	<p>Athletics: We practise our running, jumping, throwing and aiming skills in preparation for sports day.</p> <p>Swimming: We visit the Braunstone Leisure Centre to take part in swimming lessons.</p> <p>OAA: Pupils develop a skill set that is transferrable to OAA (outdoor adventurous activities). Pupils work individually and collaboratively to solve problems and are encouraged to be inclusive of others, share ideas to create strategies to find the best solution to a challenge.</p> <p>Rounders: The children work as a team to practise their hitting and fielding skills.</p>
Computing	<p>Systems and Searching: We develop an understanding of computer systems and how information is transferred between systems and devices. The children discover how information is found on the World Wide Web, through learning how search engines work (including how they select and rank results) and what influences searching, and through comparing different search engines.</p> <p>Vector Graphs: We start to create vector drawings. We learn how to use different drawing tools to help create images. We recognise that images in vector drawings are created using shapes and lines, and each individual element in the drawing is called an object. Learners layer their objects and begin grouping and duplicating them to support the creation of more complex pieces of work.</p>	<p>Physical computing: We will use Micro:bits to explore the concept of programming. Students will develop their use of some core computing concepts through coding and making practical projects.</p> <p>Fact File Databases: We will look at how a flat-file database can be used to organise data in records. We will use tools within a database to order and answer questions about data and we will create graphs and charts from our data to help solve problems. We will also use a real-life database to answer a question and present our work to others.</p>	<p>Selection in quizzes: We will develop our knowledge of 'selection' in programming. We will use algorithms to programme using the Scratch programme. We will learn how to write programs that ask questions and use selection to control the outcomes based on the answers given. We will use this knowledge to design a quiz in response to a given task and implement it as a program.</p>
RE	<p>How can following God bring freedom and justice? We make connections between the story of Moses and the concepts of freedom and salvation, and we learn about the ten commandments and different Bible texts and how they affect what Christians believe about how they should behave.</p> <p>Why do Hindus try to be good? The children identify and explain Hindu beliefs on karma, samsara, moksha and dharma. We will discuss how Hindu beliefs shape the way they live their lives.</p>	<p>What does it mean to be a Muslim today in Britain? The children will recall their understanding of the five pillars in Islam and how Muslims value generosity within the way they live their lives. We will be able to explain the main functions of a Mosque and explain some beliefs about God, the Prophet and the Holy Qur'an.</p>	<p>Why do some people believe in God and some people do not? We will make clear connections between what people believe about God and the impact of this belief on how they live. We will also consider the question, 'Is God real?'. We will be able to give at least one reason as to why some people do believe in God and why some people do not.</p>
Geography	<p>Climate Change: The children will learn about the impact of climate change on our planet and how burning fossil fuels, farming and deforestation can lead to global warming and the impact that this has on the environment and wildlife.</p> <p>Longitude and Latitude: The children will know about the imaginary lines of longitude and latitude and how they are used to describe the location of any place on Earth.</p>		<p>The Amazon Rainforest: We will learn about the Amazon rainforest and its biodiversity. We will look at the causes and impact of deforestation and we will be able to identify the different layers of the rainforest.</p>
History	<p>Victorians: We will look at what life would have been like under the rule of Queen Victoria and the differences in standards of living for those that were rich and those that were poor and the types of jobs that children may have had. We will also explore the suffragette movement and the achievements of Dr Barnardo.</p>	<p>The Vikings: The children will learn who the Vikings were and when they lived. They will look at Viking artefacts and learn about Viking raids and the way they traded.</p>	<p>Ancient Greece: We will look at what life was like in Ancient Greece and about Alexander the Great's empire. We will learn about the achievements of Ancient Greek philosophers and compare democracy in Ancient Greece to Britain today. The children will also learn about what Ancient Greeks believed.</p>
Art & Design	<p>Drawing (Typography and maps): We will understand how typography can be used creatively to communicate thoughts and ideas. We will create our own letters of a typeface and explore different variations of fonts. We will use mark making, cutting and collaging to create a visual map using symbols, drawn elements and typography.</p>	<p>Print, colour and collage: We will look at monotypes which is a simple printmaking process used to create one-off prints. We will use our knowledge to create our own.</p>	<p>3D models: We will learn about the role and responsibility of an architects. We look at the form and structure that they might use and then we use this knowledge to create a model of a home.</p>
Design & Technology	<p>Cams Toys: The children will be making a toy for a KS1 pupil which moves up and down using a cams mechanism. They will plan, design, make and evaluate their finished product.</p> <p>Honey Cakes: We will make honey cake muffins focusing on following instructions and practising our skills of baking, mixing, beating and drizzling. We will taste and evaluate our muffins.</p>	<p>Sewing bags: We will be making a bag decorated with embroidery and with a plaited handle for a person of their choice. They should design and make the bag thinking about its purpose and who it will be used by.</p>	<p>Pitta bread: We will make pitta breads focusing on following instructions and practising our skills of kneading, rolling and shaping. We will taste and evaluate our pitta breads.</p>
Music	<p>Pulse: We will create simple rhythmic pieces whilst maintaining a strong sense of pulse/ rhythm.</p> <p>Voice: The children will sing independently and as part of a group whilst experimenting with sounds they can make with their mouth. They will use graphic scores to read simple music.</p>	<p>Rhythm: We will use a variety of timbres to create and play music. We will explore basic music symbols used in western notation.</p> <p>Pitch: We will begin to use a variety of timbres, devices, textures and techniques when creating music with different types of instruments.</p>	<p>Gustav Holst and 20th century music: Pupils will learn the key features of Jazz, Expressionism and Film music. They will select at least one key feature from each genre as a basis for their own 20th Century-style composition.</p> <p>Technology: Use tone transfer, Bandlab and audio effects (FX) to use voice, sounds, technology and instruments in creative ways.</p>
French	During the academic year, pupils in year 5 will learn: Numbers 1-60, animals including gender, colours, French-speaking countries and translation using dictionaries.		

