



# Herne Bay Junior School

Curriculum map

Year 3	Autumn		Spring		Summer	
Humanities	<p style="text-align: center;"><b>Through the Ages</b></p> <p>Children learn about British prehistory from the Stone Age to the Iron Age, including changes to people and lifestyle caused by ingenuity, invention and technological advancement.</p>		<p style="text-align: center;"><b>Rocks, Relics and Rumbles</b></p> <p>Children learn about the features and characteristics of Earth's layers, including a detailed exploration of volcanic, tectonic and seismic activity.</p>		<p style="text-align: center;"><b>Emperors and Empires</b></p> <p>Children learn about the history and structure of ancient Rome and the Roman Empire, including a detailed exploration of the Romanisation of Britain.</p>	
Science	<p style="text-align: center;"><b>Skeletal and Muscular Systems</b></p> <p>Children learn about the importance of nutrition for humans and other animals. They learn about the role of a skeleton and muscles and identify animals with different types of skeleton.</p>		<p style="text-align: center;"><b>Forces and Magnets</b></p> <p>Children learn about contact and non-contact forces, including friction and magnetism. They investigate frictional and magnetic forces, and identify parts of a magnet and magnetic materials.</p>		<p style="text-align: center;"><b>Plant Nutrition and Reproduction</b></p> <p>Children learn about the requirements of plants for growth and survival. They describe the parts of flowering plants and relate structure to function, including the roots and stem for transporting water, leaves for making food and the flower for reproduction.</p>	<p style="text-align: center;"><b>Light and Shadows</b></p> <p>Children learn about light and dark. They investigate the phenomena of reflections and shadows, looking for patterns in collected data. The risks associated with the Sun are also explored.</p>
Art	<p style="text-align: center;"><b>Contrast and Compliment</b></p> <p>Children learn about colour theory by studying the colour wheel and colour mixing. It includes an exploration of tertiary colours, warm and cool colours, complementary colours and analogous colours, and how artists use colour in their artwork.</p>	<p style="text-align: center;"><b>Prehistoric Pots</b></p> <p>Children learn about Bell Beaker pottery. It allows the children to explore different clay techniques, which they use to make and decorate a Bell Beaker-style pot.</p>	<p style="text-align: center;"><b>Ammonite</b></p> <p>Children learn about artistic techniques used in sketching, printmaking and sculpture.</p>	<p style="text-align: center;"><b>People and Places</b></p> <p>Children learn about the genre of figure drawing. They study the figure drawings and urban landscapes of the artist LS Lowry and create artwork in his style to show scenes from their school.</p>	<p style="text-align: center;"><b>Beautiful Botanicals</b></p> <p>Children learn about the genre of botanical art. They create natural weavings, two-colour prints and beautiful and detailed botanical paintings of fruit.</p>	<p style="text-align: center;"><b>Mosaic Masters</b></p> <p>Children learn about the history of mosaics, before focusing on the colours, patterns and themes found in Roman mosaic. The children learn techniques to help them design and make a mosaic border tile.</p>
DT	<p style="text-align: center;"><b>Cook Well, Eat Well</b></p> <p>Children learn about food groups and the Eatwell guide. They learn about methods of cooking and explore these by cooking potatoes and ratatouille. The children choose and make a taco filling according to specific design criteria.</p>		<p style="text-align: center;"><b>Making It Move</b></p> <p>Children learn about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.</p>		<p style="text-align: center;"><b>Greenhouse</b></p> <p>Children learn about the purpose, structure and design features of greenhouses, and compares the work of two significant greenhouse designers. They learn techniques to strengthen structures and use tools safely. They use their learning to design and construct a mini greenhouse.</p>	

Year 4	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
Humanities	<b>Ancient Civilisations</b> Children learn about the history of three of the world's first ancient civilisations: ancient Sumer, ancient Egypt and the Indus Valley civilisation. Children will learn about the rise, life, achievements and eventual end of each civilisation.		<b>Misty Mountain, Winding River</b> Children learn about the history of three of the world's first ancient civilisations: ancient Sumer, ancient Egypt and the Indus Valley civilisation. Children will learn about the rise, life, achievements and eventual end of each civilisation.		<b>Invasion</b> Children learn about life in Britain after the Roman withdrawal. Children will learn about Anglo-Saxon and Viking invasions up to the Norman conquest.	
Science	<b>Digestive System</b> Children learn about the human digestive system. They explore the main parts, starting with the mouth and teeth, identifying teeth types and their functions. They link this learning to animals' diets and construct food chains to show the flow of energy.		<b>States of Matter</b> Children learn about solids, liquids and gases and their characteristic properties. They observe how materials change state as they are heated and cooled, and learn key terminology associated with these processes.	<b>Grouping and Classifying</b> Children learn about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.	<b>Electrical Circuits and Conductors</b> Children learn about electrical appliances and safety. They construct simple series circuits and name their parts and functions. They investigate electrical conductors and insulators and identify common features of conductors.	<b>Sound</b> Children learn about sound and how sounds are made and travel as vibrations through a medium to the ear. They learn about pitch and volume and find out how both can be changed.
Art	<b>Contrast and Compliment</b> Children learn about colour theory by studying the colour wheel and colour mixing. It includes an exploration of tertiary colours, warm and cool colours, complementary colours and analogous colours, and how artists use colour in their artwork.	<b>Print and Papyrus</b> Children learn about printing techniques. They will learn to tea stain, draw and print with printing ink. They will create their own Egyptian hieroglyph that has meaning to them using Styrofoam and printing blocks and use it to create a repeated pattern, a full or half pattern.	<b>Vista</b> Children learn about the techniques that artists use when composing landscape images, such as colour and atmosphere.	<b>Animal</b> Children learn about the historical and cultural portrayal of animals in art. They study the visual qualities of animals through sketching, printmaking and clay modelling.	<b>Warp and Weft</b> Children learn about the art form of weaving and how it has developed over time, including the materials and techniques required to create woven patterns and products.	<b>Islamic Art</b> Children learn about the features of Islamic art. They make geometric patterns and motifs on paper, with fabric and in clay. They use their learning to create a high relief clay tile, decorated with geometric patterns.
DT	<b>Tomb Builders</b> Children learn about simple machines, including wheels, axles, inclined planes, pulleys and levers, exploring how they helped ancient builders to lift and move heavy loads.		<b>Functional and Fancy Fabrics</b> Children learn about home furnishings and the significant designer William Morris. They learn techniques for decorating fabric, including block printing, hemming and embroidery and use them to design and make a fabric sample.		<b>Fresh Food, Good Food</b> Children learn about food decay and preservation. They discover key inventions in food preservation and packaging, then make examples. The children prepare, package and evaluate a healthy snack.	

Year 5	Autumn		Spring		Summer	
Humanities	<p align="center"><b>Dynamic Dynasties</b></p> <p>Children learn about the history of ancient China, focusing primarily on the Shang Dynasty, and explores the lasting legacy of the first five Chinese dynasties, some of which can still be seen in the world today.</p>		<p align="center"><b>Sow, Grow and Farm</b></p> <p>Children learn about the features and characteristics of land use in agricultural regions across the world, including a detailed exploration of significant environmental areas.</p>		<p align="center"><b>Groundbreaking Greeks</b></p> <p>Children learn about developments and changes over six periods of ancient Greek history, focusing on the city state of Athens in the Classical age, and exploring the lasting legacy of ancient Greece.</p>	
Science	<p align="center"><b>Forces and Mechanisms</b></p> <p>Children learn about the forces of gravity, air resistance, water resistance and friction, with children exploring their effects. They learn about mechanisms, their uses and how they allow a smaller effort to have a greater effect.</p>	<p align="center"><b>Earth and Space</b></p> <p>Children learn about our Solar System and its spherical bodies. They describe the movements of Earth and other planets relative to the Sun, the Moon relative to Earth and the Earth's rotation to explain day and night.</p>	<p align="center"><b>Human Reproduction and Ageing</b></p> <p>Children learn about animal life cycles, including the human life cycle. They explore human growth and development to old age, including the changes experienced during puberty and human reproduction.</p>		<p align="center"><b>Properties and Changes of Materials</b></p> <p>Children learn about the wider properties of materials and their uses. They learn about mixtures and how they can be separated using sieving, filtration and evaporation. They study reversible and irreversible changes, and use common indicators to identify irreversible changes.</p>	
Art	<p align="center"><b>Tints, Tones and Shade</b></p> <p>Children learn about colour theory by studying the colour wheel and exploring mixing tints, shades and tones. They learn about significant landscape artworks and features of landscapes before using this knowledge to create landscape paintings.</p>	<p align="center"><b>Taotie</b></p> <p>Children learn about the significance and art of the taotie motif, including ancient and contemporary casting methods.</p>	<p align="center"><b>Line, Light and Shadows</b></p> <p>Children learn about the visual qualities of line, light and shadow. They explore the work of Pablo Picasso and Rembrandt and are introduced to a range of shading techniques. They take black and white photographs and use pencil, pen and ink wash to reimagine their photographs in a shaded drawing.</p>	<p align="center"><b>Nature's Art</b></p> <p>Children learn about the genre of land art. They work outdoors to sketch natural forms and explore the sculptural potential of natural materials before working collaboratively to create land art installations.</p>	<p align="center"><b>Mixed Media</b></p> <p>Children learn about paper crafts, papermaking and collage techniques, including paper, fabric, mixed media and photo collage. They use their learning to create a final piece of small-scale, mixed media collage.</p>	<p align="center"><b>Expression</b></p> <p>Children learn about the Expressionist art movement and the 'Father of Expressionism', Edvard Munch. They explore different ways to portray feelings and emotions in art to create an imaginative self-portrait.</p>
DT	<p align="center"><b>Moving Mechanisms</b></p> <p>Children learn about pneumatic systems. They experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.</p>		<p align="center"><b>Eat the Seasons</b></p> <p>Children learn about the meaning and benefits of seasonal eating, including food preparation and cooking techniques.</p>		<p align="center"><b>Architecture</b></p> <p>Children learn about how architectural style and technology has developed over time and then use this knowledge to design a building with specific features.</p>	



Year 6	Autumn		Spring		Summer	
Humanities	<p align="center"><b>Britain at War</b></p> <p>Children learn about the causes, events and consequences of the First and Second World Wars, the influence of new inventions on warfare, how life in Great Britain was affected and the legacy of the wars in the post-war period.</p>		<p align="center"><b>Frozen Kingdom</b></p> <p>Children learn about the characteristics and features of polar regions, including the North and South Poles, and includes a detailed exploration of the environmental factors that shape and influence them.</p>		<p align="center"><b>Maafa</b></p> <p>Children learn about Africa past and present and the development of the slave trade. They also explore Britain's role in the transatlantic slave trade, the causes and consequences of the European colonisation of Africa and the worldwide communities that make up the African diaspora.</p>	
Science	<p align="center"><b>Circulatory System</b></p> <p>Children learn about the transport role of the human circulatory system, its main parts and their primary functions. They learn about healthy lifestyle choices and the effects of harmful substances on the body.</p>	<p align="center"><b>Electrical Circuits and Components</b></p> <p>Children learn about electrical circuits, their components and how they function. They recognise how the voltage of cells affects the output of a circuit and record circuits using standard symbols. It also teaches children about programmable devices, sensors and monitoring. They combine their learning to design and make programmable home devices.</p>	<p align="center"><b>Classification</b></p> <p>Children will revisit and build upon their knowledge of classification from Year 4. They will create their own classification keys and use them to classify different polar animals. They will explore animal adaptations, specifically within the context of polar environments.</p>	<p align="center"><b>Light Theory</b></p> <p>Children learn about the way that light behaves, travelling in straight lines from a source or reflector, into the eye. They explore how we see light and colours, and phenomena associated with light, including shadows, reflections and refraction.</p>	<p align="center"><b>Evolution and Inheritance</b></p> <p>Children learn how living things on Earth have changed over time and how fossils provide evidence for this. They learn how characteristics are passed from parents to their offspring and how variation in offspring can affect their survival, with changes (adaptations) possibly leading to the evolution of a species.</p>	
Art	<p align="center"><b>Distortion and Abstraction</b></p> <p>Children learn about the concepts of abstraction and distortion. They study the visual characteristics of abstraction and create a musically-inspired, abstract painting.</p>	<p align="center"><b>Bees, Beetles and Butterflies</b></p> <p>Children learn about sketchbooks, observational drawing, mixed media collage and Pop Art. They consolidate their learning to make a final piece of artwork inspired by bees, beetles or butterflies.</p>	<p align="center"><b>Inuit</b></p> <p>Children learn about the Inuit way of life, including some of their cultural and artistic traditions.</p>	<p align="center"><b>Environmental Artists</b></p> <p>Children learn about the genre of environmental art. They study how artists create artwork that addresses social and political issues related to the natural and urban environment. Children work collaboratively to create artwork with an environmental message.</p>	<p align="center"><b>Tints, Tones and Shades</b></p> <p>Children learn about colour theory by studying the colour wheel and exploring mixing tints, shades and tones. They learn about significant landscape artworks and features of landscapes before using this knowledge to create landscape paintings.</p>	<p align="center"><b>Trailblazers and Barrier Breakers</b></p> <p>Children learn about significant black artists and their work, and provides opportunities to analyse and create artwork inspired by them.</p>

<p>DT</p>	<p><b>Make Do and Mend</b></p> <p>Children learn a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials.</p>	<p><b>Food for Life</b></p> <p>Children learn about processed food and healthy food choices. They make bread and pasta sauces and learn about the benefits of whole foods. They plan and make meals as part of a healthy daily menu, and evaluate their completed products.</p>	<p><b>Engineer</b></p> <p>Children learn about remarkable engineers and significant bridges, learning to identify features, such as beams, arches and trusses. They complete a bridge-building engineering challenge to create a bridge prototype.</p>
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