



Herne Bay Junior School

Curriculum map

Year 3	Autumn		Spring		Summer	
Humanities	Prehistoric Britain Pupils will learn about prehistoric Britain, exploring the technological advances made between the Stone Age to the Iron Age and the impact these had on the lives of prehistoric people.		Volcanoes and Earthquakes Pupils will learn about the Earth's four layers, including tectonic and seismic activity. They will learn how these features cause volcanoes and earthquakes and the impact of these events.		Roman Britain Pupils will learn about the Roman Empire by AD42. They will explore the 'Romanisation' of Britain and its impact on the people living there, including attempts to resist.	
Science	Nutrition and the skeletal system Pupils will learn about nutrition, focusing on the need for the right types and amounts for humans and other animals. They will learn that humans and some animals have skeletons and muscles and the roles these play to support, protect and move living things.		Forces and Magnets Pupils will learn that some forces require contact between two objects, but magnetism can act at a distance. They will identify the key parts of a magnet and some magnetic materials in everyday use. They will also explore friction.	Rocks Pupils will learn about the rock cycle. They will compare and group rocks based on their appearance and simple physical properties. They will explore, in simple terms, how fossils are formed.	Plants Pupils will learn about the requirements of plants for life and growth. They will describe the function of different parts of flowering plants. They will explore how the roots and stem transport water and the role flowers play in the life cycle of flowering plants.	Light Pupils will learn about light, investigating the formation of shadows and that light is reflected from surfaces. They will learn about the risks associated with the Sun and ways to stay safe.
Art	Colour Theory Pupils will learn about the basics of colour theory. They will be introduced to the colour wheel and colour mixing. They will learn about tertiary colours, complementary colours, analogous colours and warm and cool colour palettes. They will look at how some artists have used colour in their artwork.	Clay Pupils will learn about the pottery of the Bell Beaker people. They will explore making and decorating pots in a similar style using coils of clay and tools to make simple markings.	Capturing Nature Pupils will learn about sketching, printmaking and sculpture. They will explore how artists have used these techniques to capture the natural world around them.	Figures and Landscapes Pupils will learn about figure drawing and how artists have captured the human form within landscapes. They will look at the work of artists who have explored these themes and create their own inspired artwork depicting figures in a setting familiar to them.	Inspired by Plants Pupils will learn about artists who have been inspired by plants. They will explore the techniques of weaving, two-colour printmaking and water colour painting to represent some common plants and fruits.	Mosaics Pupils will learn about mosaics. They will learn techniques to design and make a mosaic border tile inspired by the colours, patterns and themes found in Roman mosaics.
DT	Cooking and Nutrition: A Balanced Diet Pupils will learn about food groups and balancing meals through the Eatwell guide. They will learn about methods of cooking and explore some of these through practical experience. Pupils will make a healthy balanced dish based on their learning.		Movement and Mechanisms: Cams Pupils will learn about cam mechanisms. They will explore different shaped cams and then design, make and evaluate a simple automaton toy.		Functional Design Pupils will learn about the importance of functional design, exploring how selecting the correct structures and design features can lead to designs that fit specific purposes. They will learn techniques to strengthen structures and use tools safely. They will use their learning to design and construct a product that fulfils specific design criteria.	

Year 4	Autumn		Spring		Summer	
Humanities	Early Civilizations Pupils will learn about the achievements of the earliest civilizations, exploring when and where they first appeared. They will learn about the rise, life, achievements and eventual end of each civilization with a deeper focus on Ancient Egypt.		Rivers and Mountains Pupils will learn about the physical characteristics and features of rivers and mountains as well as the water cycle. They will learn about processes that shape their formation and the impact on the lives of people living near them.		Saxons and Vikings Pupils will learn about life in Britain after the Romans left. They will learn about Anglo-Saxon and Viking invasions, settlements and lifestyles and compare these to knowledge of the Romans.	
Science	The Digestive System Pupils will learn about the human digestive system. They will identify and describe the simple functions of the basic parts. They will learn about different types of teeth in humans and their simple functions. They will construct and interpret a variety of food chains, identifying producers, predators and prey.		States of Matter Pupils will learn about solids, liquids and gases and describe their characteristic properties. They observe that some materials change state when they are heated and cooled; they will link this knowledge to the understanding of the water cycle.	Classification Pupils will learn that living things can be grouped in a variety of ways. They will use classification keys to help group, identify and name a variety of living things	Electricity Pupils will learn about common appliances. They will construct simple series circuits and identify and name their basic parts and functions. They will explore the function of switches and the importance of a complete loop in a circuit. They will investigate electrical conductors and insulators and associate metals with being good conductors.	Sound Pupils will learn about how sounds are made, associating some of them with something vibrating. They will recognize that vibrations travel through a medium to the ear. They learn about pitch and volume and explore how these can be changed.
Art	Colour Theory Pupils will learn more about colour theory through further study of the colour wheel and colour mixing. They will recap previous knowledge before looking more closely at a series of artists use of colour before creating their own pieces of work inspired by the ideas studied.	Printing Pupils will 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.	Landscapes Pupils will learn about landscape paintings. They will explore techniques such as colour and atmosphere that artists use when composing landscape images before creating their own landscape painting.	Inspired by Animals Pupils will learn about artwork inspired by animals. They will explore the historical and cultural portrayal of animals in art. They will further develop their sketching, printmaking and clay modelling skills through studying the visual qualities and works of artists who have captured the images of animals in their work.	Weaving Pupils will learn further about the art form of weaving, including its development and significance over time, They will learn about the materials and techniques required to create more detailed woven patterns and products.	Inspired by Religion Pupils will learn about the production and significance of Islamic art and compare it with traditional Christian artworks. They will make geometric patterns and motifs on paper, fabric and clay. They will create a high relief clay tile, decorated with geometric patterns inspired by their learning.
DT	Mechanical Movement: Pulleys & Levers Pupils will learn about simple machines using pulleys and levers. They will learn how these machines allowed early civilizations to construct large buildings before designing and constructing their own simple machine.		Fabric Design Pupils will learn about fabric design with a specific focus on the designer William Morris. They will learn techniques to decorate fabric, using block printing, hemming and embroidery. They will design and make a fabric sample.		Cooking and Nutrition: Food Preservation Pupils will learn about food preservation to slow decay. They will learn about key inventions involved in food preservation and the use and development of packaging. They will use their learning to prepare, make, package and evaluate a healthy snack.	

Year 5	Autumn		Spring		Summer	
Humanities	Ancient China		Farming		Ancient Greeks	
	Pupils will learn about the Shang Dynasty of Ancient China. They will explore the legacy this civilization has had and where some of its influence can still be seen in the world today. They will link their learning to previous learning about Ancient Egypt, comparing the features and structures.		Pupils will learn about the physical features and characteristics of agricultural regions around the world. They will explore how the physical features of the land informs it use and the impact it has on human geography.		Pupils will learn about Ancient Greek history, exploring Greek life, achievements and the influence this civilization had on the western world. They will link this learning with their knowledge of Roman, Egyptian and Chinese history.	
Science	Forces	Earth and Space	Life Cycles		Properties and Changes of Materials	
	Pupils will learn about the forces of air resistance, water resistance and friction that act between moving surfaces and the force of gravity. Building on previous learning, they will learn that some mechanisms, including levers, pulleys and gears allow a smaller force to have a greater effect.	Pupils will learn about the movement of the various spherical bodies in our Solar System; the Earth and other planets relative to the Sun; the Moon relative to the Earth. They will learn about the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	Pupils will learn about the differences in life cycles of a mammal, an amphibian, an insect and a bird. They will learn about the life process of reproduction in some plants and animals and describe the changes as humans develop to old age.		Pupils will learn about the wider properties of materials, including hardness, solubility, transparency, conductivity and response to magnets. They will learn about mixtures, using knowledge of solids, liquids and gasses to decide how they can be separated using sieving, filtering and evaporation. They will learn about reversible and irreversible changes.	
Art	Colour Theory	Casting	Creating contrast	Land Art	Collage	Inspired by Emotion
	Pupils will further develop their colour theory by learning about the mixing of certain paints to create tints, shades and tones. They will learn about significant landscape artists and how they used tones and shades to create specific features. They will use this learning to create their own landscape painting.	Pupils will learn about casting techniques. They will explore their significance in Shang culture through the taotie motif. They will explore different methods of casting and evaluate their success.	Pupils will learn about line, light and shadow. They will learn a range of shading techniques and explore artists who have used line, light and shadow in different ways before creating a final piece of their own inspired by what they have learnt.	Pupils will learn about Land Art. They will study Land Art artists, working outdoors to develop their sketching skills as well as exploring the sculptural potential of natural materials. They will use their learning to create collaborative land art installations.	Pupils will learn about collage techniques, exploring paper, fabric, mixed media and photo collage. They will use their learning to create a mixed media collage inspired by the artists they have studied.	Pupils will learn about the Expressionist art movement. They will learn different ways they can portray emotions in their artwork through studying the works of other Expressionist artists. They will create an imaginative self-portrait.
DT	Mechanical Movement: Pneumatics		Cooking and Nutrition: Seasonality		Building Design	
	Pupils will learn about pneumatic systems and how they can be incorporated into products to achieve specific design goals. They will model simple pneumatic systems before they design, make and evaluate a pneumatic machine that performs a useful function.		Pupils will learn about seasonality and the benefits of seasonal eating. They will learn about what ingredients are available and when in the UK is the best time to source them. They will learn food preparation and cooking techniques that they will use to create a recipe using seasonally available ingredients.		Pupils will learn about how designs and design practices change over time through the lens of architecture. They will learn about changing styles and technologies that have occurred over time in building production and then use this knowledge to design a building with specific features.	

Year 6	Autumn		Spring		Summer	
Humanities	20 th Century Conflict		Extreme Climates		Maafa	
	Pupils will learn about how major conflicts shaped the 20 th century. They will learn about the causes and consequences of the First World War and how this led to the Second World War. Through the study of the Battle of Britain, they will explore the impact of war on wider society including technological advancement as well as the social impacts.		Pupils will learn about the physical characteristics and features of polar regions, specifically the North and South Poles. They will learn about the environmental factors that shape and influence the people who live in these harsh environments as well as the role these regions play in understanding climate change globally.		Pupils will learn about the Africa kingdom of Benin before moving on to the development of the slave trade. They will explore Britain’s role in the transatlantic slave trade and the causes and consequences of the European colonisation of Africa.	
Science	Circulatory System	Electricity	Classification	Light	Evolution and Inheritance	
	Pupils will learn about the human circulatory system, its main parts and their primary functions. They will learn about the impact of diet, exercise, drugs and lifestyle on the way their bodies function.	Pupils will learn more about electrical circuits, their components and how they function. They will learn about how the voltage and number of cells affects the output of certain components in a circuit and they will learn to record circuits using standard symbols.	Pupils will revisit and build upon their knowledge of classification from Year 4. They will create their own classification keys and use them to classify animals into broad groups, justifying their choices.	Pupils will learn that light travels in straight lines from a source or reflector, into the eye. They will learn how we see, and investigate associated phenomena with light: shadows, reflections, refraction and colour.	Pupils will learn how living things have changed over time and how fossils provide information about living things that inhabited the Earth millions of years ago. They will learn how characteristics are passed from parents to their offspring and how variation in offspring can occur. They will learn how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.	
Art	Abstract Art	Inspired by Nature	Inspired by Cultures	Environmental Art	Colour Theory	Representation through Art
	Pupils will learn about concepts of abstraction and distortion in art. They will study the visual characteristics of abstraction through exploring artists work before they create a musically inspired, abstract painting.	Pupils will learn about the importance of sketchbooks and observational drawing to artists when developing ideas and recording processes. They will learn about the influence of Pop Art before using the skills they have learnt to create an artwork inspired by the insect world.	Pupils will learn about how art can be used to preserve and inform about cultures. They will learn more about the Inuit way of life through exploring their cultural and artistic traditions.	Pupils will learn about Environmental Art. They will learn about how artists can address, or challenge social and political issues related to the natural and urban environment through the art they create. They will collaboratively create an artwork with an environmental message.	Pupils will revisit all their learning on colour theory: primary, secondary, tertiary, complementary, analogous, warm and cool colours, hues, tints, shades and tones. They will learn about the use of colour in four major art movements before using this knowledge to create a painting with personal meaning.	Pupils will learn about the importance of representation in art. They will learn about significant black artists, exploring the themes in their work and providing opportunities to analyse and create artwork inspired by them.
DT	Sewing		Cooking and Nutrition: Healthy Choices		Bridge Design	
	Pupils will learn a range of simple sewing techniques. Inspired by the ‘Make Do and Mend’ mantra of the Second World War, pupils will learn about ways of recycling and repurposing old clothes and materials.		Pupils will learn how some foods are processed and how to make healthy food choices. They will learn about the benefits of whole foods before they plan and make a meal as part of a healthy daily menu, evaluating their completed products.		Pupils will learn about bridge design. They will learn to identify features such as beams, arches and trusses and understand how these features support the safe design and function of bridges. They will use their knowledge to collaboratively build a bridge of their own design and measure how strong it is.	