

Year 5 Long Term Plan

	Autumn	Spring	Summer 1	Summer 2
English Key texts	'Charlie and the Great Glass Elevator' by Roald Dahl	'Room 13' by Robert Swindells	'The Blurred Man' by Anthony Horowitz 'Tuesday' by David Weisner	'The Lorax' by Dr Seuss 'Journey to the River Sea' by Eva Ibbotson
Cross-curricular Maths	How can you measure the diameter of a lunar crater? Would a larger object make a deeper crater? Data collection to create our own line graphs.	How could you run a Whitby tour, including prices of all excursions, activities, accommodation and transport? Measurement, reading scales, ratio and proportion in the making of Anglo-Saxon gingerbread settlements.	Measurements and converting measurements at a crime scene.	The calculation of tree height using distance and angle.
Science	<p>Are we alone in the universe?</p>  <p>Can you feel the force?</p> <ul style="list-style-type: none"> • What can we see in the night sky? • Why is there life on Earth? • Would you want to be on a one-way mission to Mars? • What are craters and why are they on the surface of planets? • The relationship between the Sun, Earth and moon. • Study of forces: gravity, air resistance, water resistance and friction. • How force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs. 	<p>Whitby beach science:</p> <ul style="list-style-type: none"> • Understand how mixtures might be separated, through filtering, sieving and evaporating. • Demonstrate that dissolving, mixing and changes of state are reversible changes. 	<p>Could you be the next CSI investigator?</p>  <ul style="list-style-type: none"> • Compare and group materials. • Perform experiments to investigate properties of materials. • Demonstrate some irreversible changes where new materials are formed. 	<p>Do all plants and animals start life as an egg?</p> <ul style="list-style-type: none"> • Life cycles of plants and animals • Birth, growth, development, and reproduction 
History/ Geography	<p>What have scientists discovered about gravity?</p> <ul style="list-style-type: none"> • Compare the discoveries of Isaac Newton and Galileo Galilei 	<p>What happened in Room 13?</p>  <p>Who were the Anglo-Saxons and what were they like?</p> <ul style="list-style-type: none"> • What were Anglo-Saxon settlements like? • Explain why people are attracted to live by rivers • Explain why many cities are situated on or close to rivers • Explain the course of a river • Where is Whitby and what is it like there? • Who were the Anglo-Saxons and how did they influence Whitby? 		<p>Why should rainforests be important for us all?</p>  <ul style="list-style-type: none"> • What fruits and other natural resources is Brazil famous for? • Which famous cities in Brazil attract tourists and why? • What can you find out about one of Brazil's neighbouring countries? • Why is Brazil famous for its

		<ul style="list-style-type: none"> • How have humans impacted on Whitby? • If you were to open a shop in Whitby, what and where would it be and why? • Mapwork of Whitby and the surrounding area. 		<ul style="list-style-type: none"> • dancing? • Where are rainforests located and what are their main features? • Why are rainforests often in the news and what can we do to help? • Why should we in Britain be bothered about environmental change? • What is your carbon footprint and how could you reduce it? • What can you find out about an endangered animal that lives in the rainforest? • Name and locate many of the world's most famous rivers and mountain ranges in an atlas • Plan a journey to a place in another part of the world, taking into account distance and time
Computing	<p>Media: Create and amend a range of 2D graphic representations using appropriate applications. Create simple 3D graphics using a CAD application. Plan, create and edit an animation, film, slideshow or presentation, then reflect on its efficacy. Source, edit and refine music and sound for a given audience or project. Develop criteria for evaluating theirs and others work.</p>	<p>Information Literacy: Interpret and validate information from a range of online sources. Recognise that the Internet may contain material that is irrelevant, bias, implausible and inappropriate. Search for and save differing types of media using search engine functions. Use more advanced features of search engines.</p>	<p>Data Handling: Create charts using appropriate data to interpret and answer a specific question. Create a database to store and search relevant information. Interrogate a database using suitable questions. Use technology to search and sift through large amounts of different types of information. Use a range of calculations and functions in a spreadsheet. Use a spreadsheet to model given problems.</p>	<p>Computer Science: Solve problems by decomposing them into smaller parts. Convert lines of code into everyday language (pseudocode) and vice versa. Understand and use variables. Use selection in programming to create a game aimed at an audience. To become familiar with inputs and outputs and create algorithms using them to control or simulate physical systems. Understand what networks (including the internet) are and how they are used to transfer information.</p>
E-Safeguarding	Understand the terms plagiarism and copyright and be aware of the implications of copying and sharing content without permission.	Use blocking / unsubscribing / reporting mechanisms appropriately. Control who they interact with online and the information they share.	Describe the causes and consequences of cyberbullying and discuss behaviours and strategies to prevent and stop cyberbullying.	
PSHE	PSHE Association- Health and Wellbeing	PSHE Association- Relationships	PSHE Association- Living in the Wider World	
Art	<p>Drawing techniques including perspective, shading, figure drawing and texture. How can you represent an aspect of space in the style of Kandinsky? Drawing a Winter Wonderland landscape Drawing people in motion - use line, tone and shade to represent movement.</p>	<p>Painting techniques including using watercolours, acrylics, different brushes, combining colours for effect. Create paintings based upon some of the styles of famous artists. Expressing emotion through art. Use shading to create mood. Artwork inspired by sketches and photographs from Whitby residential</p>	<p>Collage and Sculpture techniques including using a variety of media to create different textures and effects. Use tools to carve and add shapes, texture and pattern.</p>	<p>Print and Textiles including replicating patterns from natural and urban environments, shaping and stitching materials and block printing onto fabric to combine techniques. Origami tree frogs.</p>

	Papier Mache planets				
DT	Papier mache solar system Papier mache planet scenes Can you design and evaluate a Rube Goldberg machine?		Whitby Sculptures using Modroc Anglo Saxon Gingerbread Irreversible/reversible breakfast		Carnival costumes
MFL	French: Places on the high street; directions; days of the week; time; hobbies; future tense; months of the year; cultural events; numbers to 50.		French: Food; café; weather.	French: Seasons; compass directions; weather forecast.	German: Colours; numbers; age; name; asking questions; feelings; days of the week; family; folk story. Spanish: Greetings; all about Spain; feelings; colours; numbers; food; folk stories.
Music	Solar System Mars from the planets (Holst) <ul style="list-style-type: none"> Choosing appropriate tempo for a piece of music Describe, compare and evaluate music using musical vocabulary 		'Storm' interlude from Peter Grimes (Benjamin Britten) <ul style="list-style-type: none"> Change sounds or organise them differently to change the effect Use notation to record groups of pitches 	Samba! Connect It (Meredith) <ul style="list-style-type: none"> Compose music which meets specific criteria Contrast the work of a famous composer and explain my preferences 	
PE	Swimming/gymnastics Tag rugby	Swimming/netball Dance	Swimming/hockey Handball	Swimming/basketball Health-related fitness	Swimming/rounders Outdoor and adventurous Swimming/tennis Athletics
RE	How did it all start?	What can we learn from religious texts?	What are the five pillars of Islam?	Am I always right?	What do we believe in our town?
Outdoor learning	How can you make a catapult from outdoor materials?		Anglo Saxon braiding Designing Anglo Saxon settlements	Visit to Whitby Abbey – outdoor drama Whitby Beach – creating Art on the beach	Pond dipping – working scientifically to produce classification keys Pond-dipping – life cycles How would you survive in the rainforest? (den building)
Curriculum enrichment	Visit STAR Centre Space exhibition for parents.		Whitby residential Workshop and celebration for parents.		Crime Scene day. Samba dance workshop. Carnival extravaganza for parents.