

3 year deep-study rolling plan updated November - Class 3

Year A	Subject	Autumn	Spring	Summer
	<p>Deep Studies</p> <p>Science</p> <p>History</p> <p>Geography</p> <p>DT</p> <p>Art</p> <p>Computing</p> <p>Possible inquiry in blue</p>	<p>States of Matter (Y4) – ice, water and vapour – melting ice and the water cycle in Norway</p> <p>Forces (Y5) – water and air resistance – making Viking longboats</p> <p>The Viking and Anglo-Saxon struggle for the Kingdom of England</p> <p>A Viking tribe in Norway are going to invade Anglo-Saxon settlements in England. They need to build a ship and plan their invasion.</p> <p>The UK</p> <p>Locational knowledge - Name and locate counties, cities geographical regions of the UK and their topographical features and land-use patterns. Understand how some of these aspects have changed over time –</p> <p>Technical Knowledge (pulleys) - Understand and use mechanical systems - Make a Viking longboat with a pulley that raises the sail.</p> <p>Mastery of Techniques - Use a range of materials for dying and resist printing – make a batik sail with a family crest for their longboat</p> <p>Coding - Use sequence and repetition in algorithms and detect and correct errors – Make their Viking settlement on Minecraft Code.org</p> <p>Present Info - Collect, evaluate and present info using a range of programs – Make Excel spreadsheets with Danegold tax data</p> <p>Trip: Norwich Castle – A day with the Anglo Saxons and Vikings</p> <p>Visitors: Viking & Saxon Workshop - Longship Trading Company</p>	<p>Earth and Space (Y5) – the sun, earth and moon</p> <p>Light (Y6) – sunlight and shadows – Shadow puppet show about the Ancient Greeks</p> <p>Ancient Greece – study their achievements and influence on the western world – A travelling theatre group want to create a fun workshop for schools about the Ancient Greeks</p> <p>Planet Earth</p> <p>Locational knowledge - Identify the position of latitude, longitude, Equator, Northern and Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the time zones (day and night) - Planet Earth</p> <p>Technical Knowledge (cams and gears) - Understand and use mechanical systems - Make moving puppets of famous Ancient Greeks</p> <p>Great Architects and Designers - Iktinos and Kallikrates: The Parthenon</p> <p>Mastery of Techniques - Drawing 3D buildings using graphite pencils with different levels of hardness – The Parthenon with shading & shadows (backdrop)</p> <p>The Internet - Use search technologies effectively, responsibly and safely – Research Ancient Greeks</p> <p>Present Info - Collect, evaluate and present info using a range of programs - PowerPoint presentation</p> <p>Visitors: Space VR Workshop - Education Group</p> <p>Visitors: The Amazing Greeks workshop - Theatre Workshop Ltd</p>	<p>Electricity(Y4) – circuits – make a game for the plane</p> <p>Animals Including Humans (Y6) – circulation, diet and exercise – staying healthy on holiday</p> <p>Study the achievements of the earliest civilisations – Ancient Egypt – sight-seeing in Egypt (pyramids and sphynx)</p> <p>Holiday Destinations</p> <p>Place knowledge - Understand similarities and differences of a region in the UK, Europe and North or South America. holiday destinations: Norfolk, Russia and Mexico.</p> <p>A family need to prepare and then set off on their global travel adventure to experience different environments, cultures and sights around the world.</p> <p>Technical Knowledge (computing): Apply their understanding of computing to program, monitor and control their products - Make a game for the plane with a Micro:bit to keep count of scores</p> <p>Sketchbook - Record their observations of shells on Yarmouth beach and use them to revisit ideas.</p> <p>Mastery of Techniques - Sculpting using clay – sculpt and paint shells to keep as a memento</p> <p>Create Content - Use software and digital devices to create content – Make a 3D name tag on Sketchup</p> <p>Trip: Aviation Academy – the airport experience</p> <p>Trip: Great Yarmouth – holiday destination</p> <p>Visitors: ‘Around The World’ A Geographical Adventure! - The Drama Hut</p>

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Year B	Deep Studies		<p>Evolution and Inheritance (Y6)</p> <p>Animals including Humans (Y4) – teeth and food chains - links to Neolithic humans and animals</p> <p>Changes in Britain from the Stone Age to the Iron Age. Early humans are living in their Neolithic settlement. In the present, archaeologists have discovered the settlement and want to find out how these people and their way of life developed</p>	<p>Electricity (Y6) – circuits – make motorised lorries</p> <p>Forces (Y5) – friction, gravity and aerodynamics - link with making their motorised vehicle - STEM: Balloon cars, paper planes/helicopters</p> <p>Study a theme in British history – changes in an aspect of social history (transport) and a significant turning point in British history (the first railways)</p>	<p>Sound (Y4) – making sound - make medieval instruments</p> <p>Animals including Humans (Y4) – digestive system - eating their medieval bread</p> <p>A local history study - The Normans building Norwich Castle and Cathedral</p> <p>William the Conqueror has asked some Normans to build a motte and bailey castle in Norwich. In the present, Horrible Histories are filming an episode all about life in Norman Norwich for the BBC.</p>	
			<p>Settlements</p> <p>Human Geography - Describe and understand key aspects: types of settlement and land use – key and Ordnance Survey maps to build their knowledge of the UK –</p> <p>A new supermarket / road is planned for Hainford</p>	<p>Transport and Trade</p> <p>Human Geography - describe and understand: economic activity, trade links and the distribution of natural resources – Food miles, carbon footprint and sustainability. Make wind, solar and hydro energy. A local museum wants an exhibit about the history of transport and the impact it's had international trade and the environment. They also want to look the future of sustainability and electric vehicles.</p>	<p>Blue Planet</p> <p>Oceans, seas and rivers: From source to the sea (Yare to Yarmouth)</p> <p>(Medieval: Is the world flat?)</p>	
		Science		<p>Technical Knowledge (structures): Apply their understanding of how to strengthen, stiffen and reinforce more complex structures - Make a sturdy Neolithic hut.</p>	<p>Technical Knowledge (electricity): Understand and use electrical systems – make a motorised vehicle and the Goblin Racer</p>	<p>Cooking and Nutrition - Prepare and cook a savoury dish and explain a balanced diet and the origin of ingredients – medieval bread</p>
		History		<p>Sketchbook - Record their observations of running people and use them to revisit ideas.</p> <p>Mastery of Techniques - Drawing movement using charcoal - Draw running Neolithic people and animals on cave walls.</p>	<p>Great Artists - David Hockney: Roads</p> <p>Mastery of Techniques - Painting landscapes using oil paints - Paint landscapes with roads/railways in the style of David Hockney for the museum.</p>	<p>Sketchbook - Record their observations of medieval tapestries at Norwich Castle and use them to revisit ideas. Mastery of Techniques – Using a range of materials for embroidery, appliqué and quilting - Make a medieval wall-hanging</p>
		Geography		<p>The Internet - Use search technologies effectively, responsibly and safely – Research Present Info - Collect, evaluate and present info on a range of programs - Make booklets on Word</p>	<p>Coding - Design, write and debug programs that control or simulate physical systems – program robotic Lego vehicles (STEM visit)</p>	<p>Create Content - Use a variety of software and digital devices to create content – Make a Horrible Histories film using iMovie and burn onto a DVD</p>
		DT		<p>Trip: Gressenhall - Neolithic Britain day</p> <p>Visitors: Super Stone Age - Theatre Workshop</p> <p>Visitors: Bushcraft workshop - WiseUp Team building</p>	<p>Trip: East Anglia Transport Museum</p> <p>Visitors: STEM workshop – Learn by Design</p> <p>Visitors: Forces workshop – Explorer Dome</p>	<p>Trip: Norwich Cathedral</p> <p>Trip: Norwich Castle – Marvellous Medieval Maths</p> <p>Visitors: Sound Workshop - Explorer Dome</p>
		Art				
		Computing				

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<p style="text-align: center; font-size: 2em;">Year C</p>	<p style="text-align: center; font-weight: bold;">Deep Studies</p>	<p>Living Things and Their Habitats (Y5) – life cycles and reproduction of plants and animals - in China</p> <p>Properties and Changes of Materials (Y5) - heating and chemical changes - bicarb volcanoes and cooking Water cycle</p> <p>Study the achievements of the earliest civilisations - Shang Dynasty – People living and working in the Shang Dynasty prepare a tomb for a priestess..</p> <p style="text-align: center;">Mountains, Volcanoes and Earthquakes</p> <p>Physical geography - Describe and understand key aspects of physical geography: mountains, volcanoes and earthquakes – Water Cycle</p> <p>Cooking and Nutrition - Prepare and cook a savoury dish and make links with healthy eating and balanced diets - spring rolls</p> <p>Sketchbook - Record their observations of Chinese plants and use them to revisit ideas. Mastery of Techniques - Painting still life inspired by nature</p> <p>The Internet - Use search technologies effectively, responsibly and safely – Research. Use internet services for communicating, collaborating and sharing – Make websites about China</p> <p>Visitors: China / Volcanoes VR Workshop - PrimeVR Visitors: Chinese New Year Workshop - Education Group</p>	<p style="text-align: center;">Living Things and Their Habitats (Y6) – Classify the plants and animals - found in S. America (desert)</p> <p style="text-align: center;">Living Things and Their Habitats (Y4) – make identification keys</p> <p>A non-European society that provides contrast with British history – The Mayan Civilisation – American history (link to the Incas and Aztecs) It's the early 20th Century and a group of explorers have landed in America. They're examining all the different environments, plants and animals. They even discover evidence of an ancient civilisation. They share their findings with a British museum.</p> <p style="text-align: center;">Biomes</p> <p>Physical geography - Describe and understand key aspects of physical geography: climate zones, biomes and vegetation belts, rivers, the water cycle – South America</p> <p style="text-align: center;">Technical Knowledge (levers and linkages) - Make moving animals out of card</p> <p>Mastery of Techniques - Use a range of materials for printing – Make a printing block of a Mayan repeated pattern</p> <p>Coding - Design, write and debug programs that accomplish specific goals - Program a quiz about animal classification on Scratch.</p> <p>Trip: Museum of Norwich – Mayan Chocolate Trip: How Hill – rivers and the broads Visitors: Environment workshop – Explorer Dome Visitors: Rainforests VR Workshop – PrimeVR</p>	<p>Properties and Changes of Materials (Y5) – building - Anderson Shelter and bridge</p> <p>Sound (Y4) – ears and hearing - ear defenders</p> <p>Study an aspect of British history - A significant turning point in British history - A Jewish family has fled Europe because WW2 has broken out. They have arrived in England and they are getting used to life in the Home Front. The Dad has joined the Home Guard and the eldest son has been conscripted to join the Battle of Britain.</p> <p style="text-align: center;">Europe inc. Russia Geographical skills and fieldwork -</p> <p>Technical Knowledge (structures): Apply their understanding of how to strengthen, stiffen and reinforce more complex structures - Build a bridge to go over a river for the army trucks.</p> <p>Great Artists - Henry Moore: WW2 portraits</p> <p>Mastery of Techniques - Drawing portraits using graphite pencils with different levels of hardness – portraits of the family in the style of Henry Moore.</p> <p>Create Content - Use a variety of software and digital devices to create content – Make a radio podcast with advice and info for the Home Front</p> <p>Trip: Gressenhall - Homefront Heroes day Visitors: WWII Workshop - Portals To The Past Visitors: Pack Up Your Troubles - Arty-Fact Theatre</p>
		<p>Science</p> <p>History</p> <p>Geography</p> <p>DT</p> <p>Art</p> <p>Computing</p> <p>Inquiry</p>		