

IPC Long Term Plan 2020-21 with National Curriculum Expectations

	Year	Autumn Term: 14.5 Weeks	Spring Term: 11 Weeks	Summer Term: 13 Weeks
Mile Post 1	1	<p>Brainwave Tasks: Entry Point, Knowledge Harvest, Task 1 & 2 Super Humans 3 wks Science: the five senses, nutrition and healthy eating. identifying parts of the body including organs. <i>make comparisons between humans and a range of animals</i> DT: Preparing a healthy meal</p> <p>Brainwave Task: 4 From A to B 6 wks <i>Need to adapt slightly to include lots of map work (see NC and progression grids)</i> Geography: map work, identifying countries, fieldwork in the local area. <i>weather changes, hot/ cold climates</i> History: transport in the past, timelines, using primary sources to understand key events Science: investigating air resistance DT: Design, make and test a vehicle</p>	<p>Brainwave Task: 5 What's It Made Of? 3wks Science: materials DT: Evaluating existing products/stages of production.</p> <p>Brainwave Task: 6 Green Fingers! 6 wks Geography: Habitat locations, where plants grow in the world Science: Plants, living things, habitats DT: mini greenhouses</p>	<p>Brainwave Tasks: 7 & 8 Time Travelers 6 wks History: Events in chn's lives; simple timelines; local and global significant event, including inventions Science: materials - how they change over time, different strengths DT: design and make packaging for a product</p> <p>Brainwave Task: 3 Unit: Hooray...Let's Go On Holiday! 6 wks History: Evolution of luggage and the holiday, differences and similarities between holidays now and from the past, history within living memory Geography: Names of continents, countries and seas; capital cities of the UK, global weather patterns DT: Designing a holiday souvenir</p>
	2	<p>Brainwave Task: Brainwave Task: Entry Point, Knowledge Harvest, Task 1 and 3 Treasure Islands 6 wks History: timelines, transport in the past Geography: map work (uk and other locations), directions, oceans, continents, weather, climate and physical geography Science: climates, weather DT: Making and evaluating compasses, designing treasure chests</p> <p>Brainwave Task 4 All Dressed Up 3 wks History: how clothes have changed over time Science: exploring fabrics based on strength and saturation points DT: evaluating different methods for fastening clothes, exploring textiles Geography: identify how climate affects what people wear</p>	<p>Brainwave Task 5 Buildings 6 wks History: Features of buildings and how they have changed over time. Geography: human geography - features of homes from around the world, how climate influences designs of homes around the world Science: Materials and changes to materials used in buildings DT: design of buildings, structures and how to make them stronger</p> <p>Brainwave Task: 6 People of the Past 6 wks History: key people in decision-making, famous explorers, scientists and inventors, how communication has developed over time</p>	<p>Brainwave Task: 7 Live and Let live 3wks Science: what animals and humans need to survive and grow, how living and non-living things differ Geography: different places where animals, plants and humans live, identifying hot and cold areas (map work) DT: Design and make a bird feeder</p> <p>Brainwave Task: 8 We Are What We Eat 6 wks History: how food has changed Geography: where our food comes from, why different foods grow in certain countries Science: food groups, how food grows (plants), why we need food DT: food technology – savoury dishes</p>

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Off Timetable Events	Assessment Week Art and Culture Week	Assessment Week Science Week World Book Day Number Day	Assessment Week Health and Well Being Days Geography Day Sports Week
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Mile Post 2	3	<p>Brainwave Tasks: Entry Point, Knowledge Harvest, Task 1 & 2 Scavengers and Settlers – 5 ¼ wks History: changes in Britain from Stone Age to Iron Age Geography: British geography – settlement locations Skara Brae Science: Fossils – see NC Rocks (rocks are also covered in Spring) DT: making fossils</p> <p>Brainwave Task: 3 Time and Place, Earth and Space 7 ½ wks Geography: time zones, latitude, longitude, climate zones Science: Light and shadows, time DT: design and create sun dials and calendars</p>	<p>Brainwave Tasks: 4 & 5 Land, Sea and Sky - 6 weeks Geography: Names and locations of oceans, rivers, continents and countries Science: Plants; animals – making links between animals and humans DT: Sewing</p> <p>Brainwave Task: 6</p> <p>Feel the Force - 3 weeks History: Issac Newton’s impact on British/world development Geography: Science: Forces DT: marble run with levers and mechanisms</p>	<p>Brainwave Tasks: 7&8</p> <p>Active Planet -11 weeks History: Pompeii Geography: Volcano islands; earthquakes Science: Rocks DT: protective clothing item for emergency services in a disaster zone, i.e. gloves – must be textiles-based.</p>
	4	<p>Brainwave 2 weeks How Humans Work - 4 wks Science: light, nutrition, digestion, skeletons food chains, identifying producers, predators and prey. describe the functions of the heart, blood vessels and blood. <i>Include sound objectives from NC</i> DT: Design, create and evaluate a healthy and nutritious salad</p> <p>Brainwave Task: 3 Chocolate - 8 weeks History: achievements of non-European early civilizations that provide contrast with British history –e.g. the growth and importance of cocoa trade</p>	<p>Temples, Tombs and Treasures – 6 wks History: Ancient Egypt: comparison between Ancient Sumer and Ancient Egypt; Geography: human geography and physical Art: Egyptian artefacts using a range of materials (pencil, clay, paint)</p> <p>On Tap - 4 weeks Geography: water cycle. water pollution Science: states of matter, water cycle (link between evaporation and temperature)</p>	<p>Saving the World - 7 weeks History: Geography: Hemispheres, equator, climate zones, biomes. human geography, Science: recognise that living things can be grouped in a variety of ways to explore and use classification keys DT: cooking and nutrition - Tropical fruit drinks</p> <p>Bright Sparks! 4 weeks Science: electricity, magnets DT: Design and make a model house which includes circuits i.e. security alarm or light History: history of the lightbulb</p>

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		<p>Geography: use maps, atlases, globes and physical geography, including: climate zones, biomes and vegetation belts</p> <p>Science: tooth decay (see NC – Animals and Humans - identify the different types of teeth in humans and their simple functions, investigating materials (wrappers)</p> <p>DT: designing and making chocolate</p>		
<i>Off Timetable Events</i>	<p><i>Assessment Week</i></p> <p><i>Art and Culture Week</i></p>	<p><i>Assessment Week</i></p> <p><i>Science Week</i></p> <p><i>World Book Day</i></p> <p><i>Number Day</i></p>	<p><i>Assessment Week</i></p> <p><i>Health and Well Being Days</i></p> <p><i>Geography Day</i></p> <p><i>Sports Week</i></p>	

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<i>Mile Post 3</i>	5	<p>Brainwave Tasks: Entry Point, Knowledge Harvest, Task 1 & 2</p> <p>Earth as an Island 6 wks</p> <p>Geography map work (six figure grid references), types of settlement and land use including economy and distribution</p> <p>DT: food groups and food preparation, plan, create and evaluate an island dish</p> <p>Bake It! - 4 wks</p> <p>Science: properties of materials solids, liquids and gases</p> <p>DT: new food brand – baking range reversible and irreversible changes - filtering. water cycle in action in different contexts. Design and make a new brand of food - Importance of bread/food shortages.</p> <p>Brainwave Task:3</p> <p>Full Power 3 weeks</p> <p>History: famous inventors and their contribution to the development of electricity</p> <p>Science: electricity and circuits</p>	<p>Brainwave Task:4, 5&6</p> <p>The Great, The Bold and The Brave 8 wks</p> <p>History: Romans, Saxons and Scots, Vikings, Ancient Greece</p> <p>Geography: map work – main cities, routes of invasion, trade links</p>	<p>Brainwave Task:7</p> <p>Fascinating Forces 3 ½ wks</p> <p>Science: gravity, air and water resistance, friction, levers and pulleys *combine with DT project above</p> <p>DT:</p> <p>Effects of mechanisms (gears and pulleys) - lego gear investigatio</p> <p>Brainwave Task:8</p> <p>Space Explorers – 7 ½ wks</p> <p>Geography: History - link to Galileo</p> <p>Science: Solar system; movement of the moon; the earth’s rotation (also covered in Spring term – avoid overlap)</p> <p>DT: moving space vehicle *see science below</p> <p>DT - Design and make a Mars rover</p> <p>Classification and comparison of rocks and soils Life cycle of a star - effects on the universe.</p> <p>Art - colour from nebulae</p>

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		DT: design and make car components that require circuits		
6	<p>Brainwave Tasks: Entry Point, Knowledge Harvest, Task 1 & 2</p> <p>Brainwave Task:3 Time Tunnel - 6 weeks History: Local history – WW2 in Luton; Battle of Britain, Understanding the cause and consequence of key events nationally, internationally and locally: Geography: map work – European countries; local geography fieldwork (bomb trail) including Ordnance Survey maps Science: Light, Electricity DT: WW2 room with blackout link – use science links to create circuits, pulleys etc.</p> <p>Extreme Survivors 5 ½ wks History: Geography: climate zones; biomes; oceans Science: evolution and inheritance; living things and habitats</p>	<p>Brainwave Task:4&5</p> <p>Brainwave Task:8 Being Human - 4 weeks Geography: global health issues Science: Humans- the body including the brain, heart, and lungs. Inheritance, medical advances and how the environment affects our health. DT: plan and prepare healthy savoury meal</p> <p>Brainwave Task:6 Roots, Shoots & Fruits 3.4wks spec reproduction and classification Geography: how physical and human features affect their environment and the plants which grow there. Science: the different parts of plants and their functions. DT: design and create a planting device</p>	<p>Brainwave Task:7</p> <p>AD900 - 6 weeks History: Choose from: Mayans, Benin or Islamic Empire Geography: * dependent on choice above Science:</p> <p>The Story of English 6 wks History: development of the English language and its spread across the world DT: evaluate existing methods of print. plan, design and create a book.</p>	
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