

Grade 4 IPC overview

Unit overviews		
Unit	Subject	Content
Unit 1: Brain waves		How we like to learn
		Different areas of the brain
		How information gets into the brain
		How relaxation can help prepare us for learning
		How we can improve our memory
		How positive thinking can help us to succeed
		How we can support each other to achieve our goals
		How we can become more active global citizens
Unit 2: Bake it	Science	How live yeast grows
		How carbon dioxide behaves
		Which solids dissolve in water
		The properties of water and about water vapour and evaporation
		What happens when foods are heated
		Solids, liquids and gases
		Group everyday materials according to their properties
	Technology	How to design and make a new brand of food
	International	Why bread has importance for people all over the world
		Why there are food shortages in some parts of the world and how we can help 2: Zero Hunger 3: good health and well being
Key skills assessed:		

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	<p>Science:</p> <ul style="list-style-type: none"> • Be able to conduct scientific investigations posing scientific questions • Understand some of the effects of what they learn on people's lives <p>Technology:</p> <ul style="list-style-type: none"> • Be able to respond to identified needs, wants and opportunities with informed designs and products • Be able to test and evaluate their own work and improve on it 	
Unit 3: Water for everyone	Humanities	Where the water that supplies our homes comes from
		Different types of water pollution
		How drought and flooding can affect communities around the world
	Science	Harmful microorganisms and water-borne diseases
		How to make and test a rehydration drink
	Society	How lack of clean water can affect whole communities
		How lack of clean water can affect different groups within a community
	International	The sustainable technologies that are helping people to access clean water. SDG 6: clean water and sanitation
		How we can work together to create a positive 'water wise' future
	Key skills assessed:	
<p>International:</p> <ul style="list-style-type: none"> • Be able to explain how the lives of people in one country or group are affected by the activities of other countries or groups • Be able to identify ways in which people work together for mutual benefit <p>Humanities:</p> <ul style="list-style-type: none"> • Understand how and why people seek to manage and sustain their environment 		
Unit 4: Mission to Mars	Science	The planets in our solar system
		Mass and weight, and the effects of gravity
		Growing seeds and plants, choosing those that will be suitable for Mars
		How to identify a living organism

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		Different energy sources	
		Different forces and their effects	
		The best energy source/s for our Mars shelter	
	Humanities	Geographical features of Mars	
		How we can prove that there was once water on Mars	
		What people in the past used to think about Mars	
		The evidence to prove and disprove intelligent life on Mars	
	Technology	Technology that has been used to explore Mars	
		How to design and make a robot to explore Mars	
		How to design and make a suitable shelter for living on Mars	
	Society	How to work as a team	
		How to assemble a successful team for our mission to Mars	
	Physical education	How to ensure we are fit and healthy for our space mission	
		How to plan and test our own exercises suitable for space travel	
	International	How to write our own international rules and regulations for Mars	
		The reasons why we might one day need to live on another planet	
	Key skills assessed:		
	Humanities: <ul style="list-style-type: none"> • Be able to explain how physical and human processes lead to similarities and differences between places • Be able to describe and identify reasons for and results of historical events, situations, and changes in the periods they have studied Technology: <ul style="list-style-type: none"> • Be able to test and evaluate their own work and improve on it • Understand the ways in which technology can be used to meet needs, wants and opportunities 		
	Unit 5: Young entrepreneur	Humanities	The services and businesses in our local community
			Different types of products that can be bought around the world

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		Different types of currency around the world
		Products our host country and home countries import and export
		How people used to trade in the past
		How currency has changed through time
		What goods were available to past societies
	Society	Our needs and wants
		How we can create a product for a group of people
		How we can find out more about what people want
	Technology	How we can make our product and evaluate it
		How we can market and advertise our product to a group of people
	International	How we can use what we know about other countries to help our business 9 Industry, innovation and infrastructure
	Key skills assessed:	
	Humanities: <ul style="list-style-type: none"> • Be able to explain how physical and human processes lead to similarities and differences between places 	
	International: <ul style="list-style-type: none"> • Be able to explain how the lives of people in one country or group are affected by the activities of other countries or groups • Be able to identify ways in which people work together for mutual benefit 	
	Unit 6: Full Power	Science
		How to draw a circuit diagram
		How to build circuits from diagrams
		Different kinds of circuits
		Electricity and heat
		The dangers of electricity

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	Technology	How to design a car's headlights, horn and fan
	Humanities	Who discovered electricity
	International	Issues concerning electricity in the future - SDG - 7: Affordable and clean energy
	Key skills assessed:	
	Science: <ul style="list-style-type: none"> • Be able to record and communicate their findings accurately using the most appropriate medium and the appropriate scientific vocabulary and conventions Technology: <ul style="list-style-type: none"> • Understand the ways in which technology can be used to meet needs, wants and opportunities 	

During distance learning there may be adaptations to this overview.
All core learning will be covered.

