



Curriculum Overview

Year 2 – Inventions	
<p>History (To learn about local people and events in living history that are significant nationally).</p>	<ul style="list-style-type: none"> • To know that Alan Turing was a mathematician and computer science pioneer. • To understand that Alan Turing contributed to the solving of the enigma code, a vital element in Britain's defeat of Nazi Germany. • To understand that Alan Turing helped to build the world's first true computer at Manchester University. • To explain why Alan Turing is a significant individual in UK history. • To rank significant individuals that they have learnt about (including Queen Elizabeth II, Ernest Shackleton, David Attenborough and Alan Turing) by importance, and explain their choices. • To understand that Alan Turing is remembered in Manchester in a variety of ways (Alan Turing Way named after him; statue in Whitworth Gardens) and suggest other ways that he could be remembered. • To sort computer technology into old and modern and compare similarities and differences between these. • To create a simple timeline of computer technology.
<p>Science</p>	<ul style="list-style-type: none"> • To group materials by their properties, learnt in Year 1, and the additional properties transparent/opaque and flexible/rigid. • To perform simple tests to investigate which materials can be squashed to change shape and explain why others can't, using their properties e.g. <i>wooden objects can't be squashed because wood is too hard.</i> • To use observations to explain how some objects can be changed by bending, twisting and stretching; children use their knowledge of the properties of materials to explain why this happens. • To perform simple tests to identify the most suitable material for a specific purpose e.g. to make a waterproof coat for a teddy bear. • To record their results in a simple table and draw simple conclusions from these, explaining their choices.



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Year 2 – Twisted Tales (Jack and the Beanstalk; Revolting Rhymes)

Science

- To observe the growth of a seed into a mature plant using simple equipment and record this, explaining each stage clearly.
- To understand that the seeds from a plant can be re-planted to continue their lifecycle.
- To record the growth of a plant over time using standard measures e.g. mm or cm.
- To draw and label the stages of the lifecycle of a plant.
- To understand and use the term **lifecycle**.
- To plan, carry out and record an investigation to test how changing the amount of water, light and temperature affect the growth of a plant.
- To use the results of their investigation to predict what will happen to the seed or bulb of a different type of plant when studied under varying water, light or temperature conditions.
- To test their prediction through further investigation.



Curriculum Overview

Year 2 – Locations	
Geography	<ul style="list-style-type: none">• To use aerial photographs and maps to recognise and describe the physical and human features of Chadderton.• To use simple compass directions (NESW) to describe the location of features and routes on a map of the local area surrounding school.• To make drawings, take photographs and record sound and video to record their observations of the human and physical features of the local area surrounding school.• To draw a simple map of the local area, including a compass rose and a basic key.• To compare modern and historical maps of Chadderton and make simple observations of how the area has changed e.g. changed from a small village with a few houses to a busy town; explain that the mills are not used as mills anymore but now contain different businesses.• To understand that the change from industry to business in recent years is not unique to Oldham, but common across the Greater Manchester region.• To name, locate and identify the characteristics of seas surrounding the UK.• To gather and record data to answer simple questions about the local area e.g. <i>Which is the most common type of vehicle in our local area?</i>• To understand and use the key vocabulary: mountain, hill, sea, cliff, city, town, village, office.



Curriculum Overview

Year 2 – Frozen Planet	
Geography	<ul style="list-style-type: none">• To name and locate the four bodies of water surrounding the UK on a map: <i>Irish Sea, English Channel, North Sea and Atlantic Ocean.</i>• To describe the characteristics of each of the four bodies of water surrounding the UK e.g. <i>The Irish Sea separates England and Northern Ireland; The English Channel is not very wide so we can travel across it by ferry.</i>• To name and locate the 5 oceans of the Earth on a map: <i>Atlantic Ocean, Pacific Ocean, Arctic Ocean, Southern Ocean, Indian Ocean.</i>• To group weather by season (based on knowledge from Year 1) and understand how the day length differs by season.• To compare and contrast daily weather patterns in the UK with those of the frozen regions of the world.• To explain the differences in weather patterns between the arctic regions and the UK in relation to the equator e.g. <i>The UK has some warm weather because it is closer to the equator so it gets more sunlight than the Arctic.</i>• To understand and use the key vocabulary: ocean, season, weather.
Science (Science afternoon)	<ul style="list-style-type: none">• To predict the results of simple tests.• To plan and perform simple tests.• To record and present results from simple tests.• To draw conclusions from their simple tests and suggest ways to further test their conclusions.



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Year 2 – Animals

Science

- To understand that living things undertake 7 processes: grow, move, reproduce, sense, use nutrition, excrete waste products and respire.
- To understand that things that are dead used to undertake the 7 processes, but do not anymore.
- To understand that things which have never undertaken the 7 life processes have never been alive.
- To classify things into living, dead and never alive and explain their choices using the 7 life processes.
- To understand that living things need water, food and air and explain some of the consequences of a lack of these.
- To give examples of micro-habitats and list some animals that live there e.g. pond contains fish, water beetles, etc.
- To group animals according to the habitat they live in and explain how the habitat fulfils the animals' needs.
- To understand that plants are always at the beginning of a food chain.
- To construct simple food chains which begin with a plant and end with a carnivore or omnivore.
- To match animal parents and their offspring, including those which look similar (e.g. cow-calf, horse-foal) and those which do not look similar (e.g. frogspawn-tadpole-frog; caterpillar – butterfly; egg – chicken).
- To order the lifecycle of a human being (baby – toddler – child – teenager – adult – older adult) and explain some changes in capabilities at each stage.
- To perform comparative tests and record their results to investigate how exercise affects their heart.
- To explain why exercise is important for keeping the human body healthy in relation to the heart and the circulation of blood and oxygen.
- To understand that we must wash our hands before we eat to reduce the spread of germs, which can make us ill.
- To name the main food groups and their role in keeping the body healthy: carbohydrates (sugars, grains, cereals and potatoes), protein (meat, fish, nuts and pulses), fats (oils, fats and nuts), dairy and fruits and vegetables.
- To describe a balanced diet and explain some consequences of not following this.



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Year 2 - Africa	
Geography	<ul style="list-style-type: none"> • To name and locate the earth's seven continents on maps and globes: Europe, Africa, Asia, North America, South America, Australasia, Antarctica. • To identify Kenya on a map of the world and understand that it is part of the continent of Africa. • To locate Oldham on a map and understand that it is part of the UK, which is part of the continent of Europe. • Using aerial perspectives (e.g. Google Earth), identify similarities in transport, houses and buildings and physical features between Oldham and Nairobi, the capital city of Kenya. • Using aerial perspectives (e.g. Google Earth), identify differences in transport, houses and buildings and physical features between Oldham and Nairobi, the capital city of Kenya. • Give possible reasons for these differences. • To understand and use the key vocabulary: river, valley.
History (significant historical events in the local area)	<ul style="list-style-type: none"> • To compare life in the industrial revolution in Oldham with life in Kenya at the same time. • To understand that Oldham grew into a large town during the Industrial Revolution. • To describe what life may have been like for children living in Oldham during the Industrial Revolution. • To understand that life in Kenya at the same time was very different e.g. many people lived in tribal groups; settlements were spread out. • To describe how life for children in Kenya at the time of the Industrial Revolution was similar from and different to life for children in Oldham.