

# Aughton St Michael's CE

## Curriculum Objectives and Assessment Materials



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Next Review: January 2024

## Overview

This document outlines the specific objectives that are taught in Science, Art and Design, Computing, Design and Technology, Geography, History, Spanish and Music and links to our curriculum – i.e. where we have placed specific units to best develop the knowledge and understand of our pupils. It breaks down the objectives set out in the National Curriculum into more user-friendly, specific statements that can be used for planning and assessing our children.

For English, we please see our English Curriculum document which is based on the NC 2014 and Lancashire KLIPs.

For Maths, we use a mastery approach. We use the Lancashire Progression documents in Y6 and EYFS and Lancashire's Red Rose Maths in Y1-5.

For Religious Education we use the Diocese's planning document supplemented with units from the SACRE planning documentation.

For PSHE, we use 1 Decision.

For Physical Education, we use Succeedin.

For Computing, we use the National Centre for Computing Education's *Teach Curriculum*.

The objectives in this document can be used to create topics or stand-alone units/lesson. The planning for the topic can be found in the curriculum area of our website.

The foundation subjects are organised in alphabetical order.

Where possible we will utilise our school environment, Forest School and wider community to enhance the learning of the pupils and engage them in their learning.

### Supplementary Resources

The following documentation and resources are used to aid teaching but are not the objectives we teach to.

For Science, we use PZAZ.

For Spanish, we use Primary Languages Network.

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## Scientific Knowledge and Conceptual Understanding: EYFS Expectations

### EARLY LEARNING GOAL

#### The Natural World

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

#### Managing Self

- Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

#### Listening, Attention and Understanding

- Make comments about what they have heard and ask questions to clarify their understanding.

Plants	Seasons	My body	Animals	Materials
<ul style="list-style-type: none"> <li>• Recognise a plant and describe some of the common features of plants.</li> <li>• Describe some of the conditions needed for plants to grow.</li> <li>• Name some parts of a plant including leaves, flowers and petals.</li> </ul>	<ul style="list-style-type: none"> <li>• Know the seasons and put them in the correct order from any starting point.</li> <li>• Describe some of the features of the seasons, such as hotter in the summer, shorter day in the winter etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify some parts of the body.</li> <li>• Identify parts of the body and link them to the 5 senses.</li> <li>• label parts of a body.</li> <li>• Describe the short-term effects of exercise on their bodies.</li> </ul>	<ul style="list-style-type: none"> <li>• Be able to name some animals and identify them as living things.</li> <li>• Identify the diet of some animals.</li> </ul>	<ul style="list-style-type: none"> <li>• identify the materials from which objects are made.</li> </ul> <p>Describe some of the characteristics of materials.</p>
Food, hygiene and exercise	Powers	Habitat	Potions	
<ul style="list-style-type: none"> <li>• Know that regular exercise is needed to make you stronger and fitter.</li> <li>• Recognise foods as either meat, fruit, vegetables and dairy.</li> <li>• Describe some of the things they need to do to remain healthy and hygienic.</li> </ul>	<p>Describe magnetic attraction as push and pull.</p> <p>Identify that certain materials are magnetic and some are not</p>	<ul style="list-style-type: none"> <li>• be able to describe the environment in which living things exist is called a habitat.</li> <li>• Identify different types of habitats.</li> <li>• Identify some living things with a particular habitat.</li> <li>• Recognise that living things need food and water to remain healthy.</li> </ul> <p>Know some ways animals catch their food.</p>	<ul style="list-style-type: none"> <li>• be beginning to identify the state of matter or a substance.</li> <li>• Identify fizzing as gas being made.</li> <li>• know some of the properties of a liquid.</li> <li>• know that different liquids have different properties e.g. runny, thick</li> <li>• know that substances can be changed using heat.</li> </ul>	

## Scientific Knowledge and Conceptual Understanding: Year 1 Expectations

Plants: Common Names and Basic Structure	Animals - Humans	Animals - Other Animals
<ul style="list-style-type: none"> <li>▪ <u>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.</u></li> <li>▪ <u>Identify and describe the basic structure of a variety of common flowering plants, including trees (at least: flower, leaf, root, stem, trunk, seed, branch and petal).</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</u> <ul style="list-style-type: none"> <li>▫ Recognise that humans are animals.</li> <li>▫ Compare and describe differences in their own features (eye, hair, skin colour, etc.).</li> <li>▫ Recognise that humans have many similarities.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Identify and name a variety of common animals including some fish, some amphibians, some reptiles, some birds and some mammals.</u></li> <li>▪ <u>Identify and name a variety of common animals that are carnivores, herbivores and omnivores (i.e. according to what they eat).</u></li> <li>▪ <u>Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, and including pets).</u> <ul style="list-style-type: none"> <li>▫ Find out and describe how animals look different to one another.</li> <li>▫ <u>Group together animals according to their different features.</u></li> <li>▫ <u>Recognise similarities between animals:</u> <u>Structure: head, body, way of moving, senses, body covering, tail.</u></li> </ul> </li> <li>▫ Animals have senses to explore the world around them and to help them to survive.</li> <li>▫ Recognise that animals need to be treated with care and sensitivity to keep them alive and healthy.</li> <li>▫ Animals are alive; they move, feed, grow, use their senses and reproduce.</li> </ul>
Material Properties – Everyday Materials		Light and Astronomy – Seasonal Change
<ul style="list-style-type: none"> <li>▪ <u>Distinguish between an object and the material from which it is made.</u></li> <li>▪ <u>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, rock, brick, paper and cardboard.</u></li> <li>▪ <u>Describe the simple physical properties of a variety of everyday materials.</u></li> <li>▪ <u>Compare and group together a variety of everyday materials on the basis of their simple physical properties.</u></li> </ul>		<ul style="list-style-type: none"> <li>▪ <u>Observe and describe changes across the four seasons.</u></li> <li>▪ <u>Observe and describe weather associated with the seasons and how day length and temperature varies.</u></li> </ul>

## Scientific Knowledge and Conceptual Understanding: Year 2 Expectations

Environment - Living things and their habitats	Animals - Animal survival and growth	Health – How we grow and stay healthy
<ul style="list-style-type: none"> <li>▪ <u>Explore and compare the differences between things that are living, dead, and things that have never been alive.</u></li> <li>▪ <u>Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.</u></li> <li>▪ <u>Identify and name a variety of plants and animals in their habitats, including microhabitats.</u></li> <li>▪ <u>Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.</u> <ul style="list-style-type: none"> <li>▫ Different kinds of plants and animals live in different kinds of places.</li> <li>▫ There are different kinds of habitat near school which need to be cared for □</li> </ul> </li> </ul> <p>Habitats provide the preferred conditions for the animals/plants that live there (compare local habitats and less familiar examples).</p> <ul style="list-style-type: none"> <li>▫ <u>Observe living things in their habitats during different seasonal changes.</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Notice that animals have offspring which grow into adults.</u></li> <li>▪ <u>Find out about and describe the basic needs of animals for survival (water, food and air).</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Notice that humans have offspring which grow into adults.</li> <li>▪ <u>Find out about and describe the basic needs of humans, for survival (water, food and air).</u></li> <li>▪ <u>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</u> <ul style="list-style-type: none"> <li>▫ Medicines can be useful when we are ill.</li> <li>▫ Medicines can be harmful if not used properly.</li> </ul> </li> </ul>
Plants – Plant growth		Material Properties – Uses of Materials
<ul style="list-style-type: none"> <li>▪ <u>Observe and describe how seeds and bulbs grow into mature plants.</u></li> <li>▪ <u>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy (and how changing these affects the plant).</u> <ul style="list-style-type: none"> <li>□ Plants are living and eventually die.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>▪ <u>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, water, rock, paper and cardboard for particular uses.</u></li> <li>▪ <u>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching (applying a force).</u> <ul style="list-style-type: none"> <li>□ Some materials can be found naturally; others have to be made.</li> </ul> </li> </ul>

## Scientific Knowledge and Conceptual Understanding: Year 3 Expectations

Plants – Functions of Parts of a Plant	Animals - Health/Nutrition	Animals - Skeletons and Movement
<ul style="list-style-type: none"> <li>▪ <u>Identify, locate and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.</u></li> <li>▪ <u>Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.</u></li> <li>▪ <u>Investigate the way in which water is transported within plants.</u></li> <li>▪ <u>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</u> <ul style="list-style-type: none"> <li>▫ Roots grow downwards and anchor the plant.</li> <li>▫ Water, taken in by the roots, goes up the stem to the leaves, flowers and fruit.</li> <li>▫ Nutrients (not food) are taken in through the roots.</li> <li>▫ Stems provide support and enable the plant to grow towards the light.</li> <li>▫ Plants make their own food in the leaves using energy from the sun.</li> <li>▫ Flowers attract insects to aid pollination.</li> <li>▫ Pollination is when pollen is transferred between plants by insects, birds, other animals and the wind.</li> <li>▫ Seeds are formed after the flowers are pollinated.</li> <li>▫ Many flowers produce fruits which protect the seed and/or aid seed dispersal.</li> <li>▫ Seed dispersal, by a variety of methods, helps ensure that new plants survive.</li> <li>▫ Plants need nutrients to grow healthily (either naturally from the soil or from fertiliser added to soil).</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</li> <li>▪ <u>An adequate and varied diet is beneficial to health</u> (along with a good supply of air and clean water).</li> <li>▪ <u>Regular and varied exercise from a variety of different activities is beneficial to health</u> (focus on <i>energy in versus energy out</i>. Include information on making informed choices).</li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</u></li> <li>▪ <u>Identify animals (vertebrates) which have a skeleton which supports their body, aids movement &amp; protects vital organs (e.g. name and locate skull, backbone, ribs, bones for movement/limbs, pelvis and be able to name some of the vital organs protected).</u></li> <li>▪ Identify animals without internal skeletons/backbones (invertebrates) and describe how they have adapted other ways to support themselves, move &amp; protect their vital organs. <ul style="list-style-type: none"> <li>▫ Know how the skeletons of birds, mammals, fish, amphibians or reptiles are similar (backbone, ribs, skull, bones used for movement) and the differences in their skeletons.</li> <li>▫ Know that muscles, which are attached to the skeleton, help animals move parts of their body.</li> <li>▫ Explore how humans grow bigger as they reach maturity by making comparisons linked to body proportions and skeleton growth – e.g. do people with longer legs have longer arm spans?</li> <li>▫ Recognise that animals are alive; they move, feed, grow, use their senses and reproduce.</li> </ul> </li> </ul>
Material Properties - Rocks	Light and Astronomy - Light, reflections and shadows	Forces and Magnets
<ul style="list-style-type: none"> <li>▪ <u>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.</u></li> <li>▪ <u>Describe in simple terms how fossils are formed</u> when things that have lived are trapped within rock.</li> <li>▪ <u>Recognise that soils are made from rocks and organic matter</u> <ul style="list-style-type: none"> <li>▫ Recognise that rocks and soils can feel and look different.</li> <li>▫ Recognise that rocks and soils can be different in different places/environments.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Recognise that they need light in order to see things and that dark is the absence of light.</li> <li>▪ <u>Notice that light is reflected from surfaces.</u></li> <li>▪ Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.</li> <li>▪ <u>Recognise that shadows are formed when the light from a light source is blocked by a solid object.</u></li> <li>▪ <u>Find patterns in the way that the size of shadows can change.</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Compare how some things move on different surfaces.</li> <li>▪ <u>Notice that some forces need contact between two objects but magnetic forces can act at a distance.</u></li> <li>▪ <u>Observe how magnets attract or repel each other and attract some materials and not others.</u></li> <li>▪ <u>Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.</u></li> <li>▪ <u>Describe magnets as having two poles (like and unlike poles).</u></li> <li>▪ <u>Predict whether two magnets will attract or repel each other, depending on which poles are facing.</u></li> </ul>

## Scientific Knowledge and Conceptual Understanding: Year 4 Expectations

Environment – Living Things and Their Habitats		Animals – Teeth, Eating and Digestion	
<ul style="list-style-type: none"> <li>▪ <u>Recognise that living things can be grouped in a variety of ways.</u></li> <li>▪ <u>Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.</u></li> <li>▪ <u>Recognise that environments can change and that this can sometimes pose dangers to living things.</u> <ul style="list-style-type: none"> <li>□ Use and make identification keys for plants and animals.</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>▪ <u>Describe the simple functions of the basic parts of the digestive system in humans.</u></li> <li>▪ <u>Identify the different types of teeth in humans and their simple functions.</u></li> <li>▪ <u>Construct and interpret a variety of food chains, identifying producers, predators and prey (NB Link with types of teeth and eating in this unit but this concept could be developed further in the yr4 Environment / habitats unit).</u> <ul style="list-style-type: none"> <li>□ Describe how teeth and gums have to be cared for in order to keep them healthy.</li> </ul> </li> </ul>	
Material Properties and Changes – States of Matter	Sound	Electricity	
<ul style="list-style-type: none"> <li>▪ <u>Compare and group materials together, according to whether they are solids, liquids or gases.</u></li> <li>▪ <u>Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).</u></li> <li>▪ <u>Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</u> <ul style="list-style-type: none"> <li>□ Solids, liquids and gases can be identified by their observable properties.</li> <li>□ Solids have a fixed size and shape (the size and shape can be changed but it remains the same after the action).</li> <li>□ Liquids can pour and take the shape of the container in which they are put.</li> <li>□ Liquids form a pool not a pile.</li> <li>□ Solids in the form of powders can pour as if they were liquids but make a pile not a pool.</li> <li>□ Gases fill the container in which they are put.</li> <li>□ Gases escape from an unsealed container.</li> <li>□ Gases can be made smaller by squeezing/pressure.</li> <li>□ Liquids and gases can flow.</li> </ul> </li> </ul>	<p><b>Vibrations</b></p> <ul style="list-style-type: none"> <li>▪ <u>Identify how sounds are made, associating some of them with something vibrating.</u></li> <li>▪ <u>Recognise that vibrations from sounds travel through a medium to the ear.</u></li> <li>▪ <u>Find patterns between the volume of a sound and the strength of the vibrations that produced it.</u></li> <li>▪ <u>Recognise that sounds get fainter as the distance from the sound source increases.</u> <ul style="list-style-type: none"> <li>□ Recognise that sounds can be made in a variety of ways (pluck, bang, shake, blow) using a variety of things (instruments, everyday materials, body).</li> <li>□ Sounds travel away from their source in all directions.</li> <li>□ Vibrations may not always be visible to the naked eye.</li> </ul> </li> </ul> <p><b>Pitch</b></p> <ul style="list-style-type: none"> <li>▪ <u>Find patterns between the pitch of a sound and features of the object that produced it.</u> <ul style="list-style-type: none"> <li>□ Sounds can be high or low pitched.</li> <li>□ The pitch of a sound can be altered.</li> <li>□ Pitch can be altered either by changing the material, tension, thickness or length of vibrating objects or changing the length of a vibrating air column.</li> </ul> </li> </ul> <p><b>Muffling/blocking sounds</b></p> <ul style="list-style-type: none"> <li>▪ <u>Recognise that vibrations from sounds travel through a medium to the ear.</u> <ul style="list-style-type: none"> <li>□ Sounds are heard when they enter our ears (although the structure of the ear is not important key learning at this age phase).</li> <li>□ Sounds can travel through solids, liquids and air/gas by making the materials vibrate.</li> <li>□ Sound travel can be reduced by changing the material that the vibrations travel through.</li> <li>□ Sound travel can be blocked.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ Identify common appliances that run on electricity.</li> <li>▪ <u>Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</u></li> <li>▪ <u>Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.</u></li> <li>▪ <u>Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.</u></li> <li>▪ <u>Recognise some common conductors and insulators, and associate metals with being good conductors.</u> <ul style="list-style-type: none"> <li>□ Electricity can be dangerous.</li> <li>□ Electricity sources can be mains or battery.</li> <li>□ Batteries ‘push’ electricity round a circuit and can make bulbs, buzzers and motors work.</li> <li>□ Faults in circuits can be found by methodically testing connections.</li> <li>□ Drawings, photographs and diagrams can be used to represent circuits (although standard symbols need not be introduced until UKS2).</li> </ul> </li> </ul>	



## Scientific Knowledge and Conceptual Understanding: Year 5 Expectations

Environment - Observing Life cycles	Material Properties – Testing Material Properties	Material Changes - Reversible changes
<ul style="list-style-type: none"> <li>Describe the differences in the <u>life cycles of a mammal, an amphibian, an insect and a bird.</u></li> <li>Describe the life process of <u>reproduction in some plants and animals.</u></li> <li>Name, locate and describe the <u>functions of the main parts of reproductive system of plants</u> (stigma, stamen, petal, sepal, pollen, ovary).</li> </ul>	<ul style="list-style-type: none"> <li>Compare and group together everyday materials on the basis of their <u>properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</u></li> <li>Give reasons, based on evidence from comparative and fair tests, for the <u>particular uses of everyday materials, including metals, wood and plastic (advantages and disadvantages).</u> <ul style="list-style-type: none"> <li>Compare a variety of materials and measure their effectiveness (e.g. hardness, strength, flexibility, solubility, transparency, thermal conductivity, electrical conductivity).</li> </ul> </li> </ul> <p><b>Temperature and Thermal Insulation</b></p> <ul style="list-style-type: none"> <li>Heat always moves from hot to cold.</li> <li>Some materials (insulators) are better at slowing down the movement of heat than others.</li> <li>Objects/liquids will warm up or cool down until they reach the temperature of their surroundings.</li> </ul>	<ul style="list-style-type: none"> <li>Know that some materials will dissolve in liquid to form a solution, and describe how to <u>recover a substance from a solution.</u></li> <li>Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including <u>through filtering, sieving and evaporating.</u></li> <li>Demonstrate that <u>dissolving, mixing and changes of state are reversible changes.</u> <ul style="list-style-type: none"> <li>Changes can occur when different materials are mixed.</li> <li>Some material changes can be reversed and some cannot.</li> <li>Recognise that dissolving is a reversible change and <u>recognise everyday situations where dissolving occurs.</u></li> <li>Distinguish between melting and dissolving.</li> <li>Mixtures of solids (of different particle size) can be separated by sieving.</li> <li>Mixtures of solids and liquids can be separated by filtering if the solid is insoluble.</li> <li>Evaporation helps us separate soluble materials from water.</li> <li>Changes to materials can happen at different rates (factors affecting dissolving, factors affecting evaporation – amount of liquid, temperature, wind speed, etc).</li> <li>Freezing, melting and boiling changes can be reversed (revision from YR4).</li> </ul> </li> </ul>
Animals - Human Life Cycles	Light and Astronomy – Earth and Space	Material Changes – Irreversible changes
<ul style="list-style-type: none"> <li>Describe the changes as <u>humans develop to old age.</u></li> <li>Animals are alive; they move, feed, grow, use their senses, reproduce, breathe/respire and excrete.</li> </ul>	<ul style="list-style-type: none"> <li>Describe the movement of the Earth, and other planets, relative to the Sun and each other in the solar system.</li> <li>Describe the movement of the Moon relative to the Earth.</li> <li>Describe Sun/Earth/Moon as approximately spherical bodies.</li> <li>Use the idea of the Earth's rotation to explain day and night. <ul style="list-style-type: none"> <li>The Earth spins once around its own axis in 24 hours, giving day and night.</li> <li>The Earth orbits the Sun in one year.</li> <li>We can see the Moon because the Sun's light reflects off it.</li> <li>The Moon orbits the Earth in approximately 28 days and changes to the appearance of the moon are evidence of this.</li> </ul> </li> <li>Use the Earth's movement in space to explain the apparent movement of the sun across the sky. <ul style="list-style-type: none"> <li>The Sun appears to move across the sky from East to West and this causes shadows to change during the day.</li> <li>Changes to shadow length over a day or changes to sunrise and sunset times over a year are evidence supporting the movement of the Earth.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, and the action of acid on bicarbonate of soda (producing a gas / fizzing).</li> </ul> <p><b>Forces – Effects on Movement</b></p> <ul style="list-style-type: none"> <li>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.</li> <li>Identify the effects of air resistance, water resistance and friction that act between moving surfaces (causing things to slow down)</li> <li>Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. <ul style="list-style-type: none"> <li>There are different types of forces (push, pull, friction, air resistance, water resistance, magnetic forces, gravity) which have different effects on objects</li> <li>Gravity can act without direct contact between the Earth and an object.</li> <li>Friction, air resistance and water resistance can be useful or unwanted.</li> <li>The effects of friction, air resistance and water resistance can be reduced or increased for a preferred effect.</li> <li>More than one force can act on an object simultaneously (either reinforcing or opposing each other).</li> </ul> </li> </ul>

## Scientific Knowledge and Conceptual Understanding: Year 6 Expectations

Living Things and their Habitats - Classification	Living Things and their Habitats – Evolution and Inheritance	Animals/Health – Exercise, Health and The Circulatory System
<ul style="list-style-type: none"> <li>▪ <u>Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.</u></li> <li>▪ Give reasons for classifying plants and animals based on specific characteristics.               <ul style="list-style-type: none"> <li>▫ Living things can be grouped into microorganisms, plants and animals.</li> <li>▫ Vertebrates can be grouped as fish, amphibians, reptiles, birds and mammals.</li> <li>▫ Invertebrates can be grouped as snails and slugs, worms, spiders and insects.</li> <li>▫ Plants can be grouped as flowering plants (incl. trees and grasses) and non-flowering plants (such as ferns and mosses).</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.</u></li> <li>▪ <u>Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.</u></li> <li>▪ <u>Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.</u></li> <li>▪ <u>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function (in the long term and short term).</u></li> <li>▪ <u>Describe the ways in which nutrients and water are transported within animals, including humans.</u> <ul style="list-style-type: none"> <li>▫ The heart is a major organ and is made of muscle.</li> <li>▫ The heart pumps blood around the body through vessels and this can be felt as a pulse.</li> <li>▫ The heart pumps blood through the lungs in order to obtain a supply of oxygen.</li> <li>▫ Blood carries oxygen/essential materials to different parts of the body.</li> <li>▫ During exercise muscles need more oxygen so the heart beats faster and our breathing and pulse rates increase.</li> <li>▫ Animals are alive; they move, feed, grow, use their senses, reproduce, breathe/respire and excrete.</li> <li>▫ An adequate, varied and balanced diet is needed to help us grow and repair our bodies (proteins), provide us with energy (fats and carbohydrates) and maintain good health (vitamins and minerals).</li> <li>▫ Tobacco, alcohol and other 'drugs' can be harmful.</li> <li>▫ All medicines are drugs, not all drugs are medicines.</li> </ul> </li> </ul>
<h3>Light and Astronomy – How Light Travels</h3>		<h3>Electricity</h3>
<ul style="list-style-type: none"> <li>▪ <u>Recognise that light appears to travel in straight lines.</u></li> <li>▪ <u>Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.</u></li> <li>▪ <u>Explain that we see things because the light that travels from light sources to our eyes or from light sources to objects and then to our eyes (and represent this in simple diagrammatic form).</u></li> <li>▪ <u>Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</u></li> </ul>		<ul style="list-style-type: none"> <li>▪ <u>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.</u></li> <li>▪ <u>Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.</u></li> <li>▪ <u>Use recognised symbols (at least: cells, wires, switches, bulbs, buzzers and motors) when representing a simple circuit in a diagram.</u> <ul style="list-style-type: none"> <li>▫ Use/interpret circuit diagrams to construct a variety of more complex circuits predicting whether they will 'work'.</li> </ul> </li> </ul>

## Year Group Expectations for Working Scientifically Skills (Grid 1)

	EXPLORING / OBSERVING	GROUPING AND CLASSIFYING	QUESTIONING	RESEARCH	MODELLING <i>Non Statutory</i>	COLLABORATING <i>Non Statutory</i>
UKS2	Developing a deeper understanding of a wide range of scientific ideas and encountering more abstract ideas.	Compare and contrast a variety of examples linked to UKS2 PoS.	Asking their own questions about scientific phenomena.	Summarise research from a wide variety of sources and recognising that scientific ideas change and develop over time	Using dance, drama or a visual aid to represent science in the real world.	Interacting effectively as part of a group.
LKS2	Developing their own ideas and their understanding of the world around them.	Compare and contrast a variety of examples linked to LKS2 PoS.	Asking relevant questions.	Finding things out using a wide range of secondary sources of information.		
KS1	Observing closely using their observations and ideas to suggest answers to questions.	Compare and contrast a variety of examples linked to KS1 PoS.	Asking simple questions.	Finding things out using secondary sources of information		
EYFS	Observe closely using simple equipment with help.	Use simple features to compare objects, materials and living things and, with help, decide how to sort and group the	Listen attentively and respond to what they hear with relevant questions (ELG: Listening, Attention & Understanding)	Use all their senses in hands-on exploration of natural materials		
Year 6	<ul style="list-style-type: none"> <li>Use correct scientific knowledge and understanding and relevant scientific language to discuss their observations and explorations (linked to Y6 PoS).</li> <li>Identify changes that have occurred over a very long period of time (evolution) and discuss how changes have impacted the world.</li> <li>Explore more abstract systems / functions / changes / behaviours and record their understanding of these (e.g. the relationship between diet, exercise, drugs, lifestyle and health; evolutionary changes; how light travels).</li> </ul>	<ul style="list-style-type: none"> <li>Recognise the importance of classification to the scientific world and form a conclusion from their sorting and classifying.</li> <li>Compare and contrast more complex processes, systems, functions (e.g. sexual and asexual reproduction).</li> <li>Construct a classification key / branching database using more than two items.</li> <li>Compare and contrast things beyond their locality and discuss advantages / disadvantages, pros / cons of the similarities and differences.</li> <li>Use <i>research*</i> to identify and classify things.</li> <li>Use classification systems, keys and other information records [databases] to help classify or identify things.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise scientific questions that do not yet have definitive answers (linked to Y6 PoS).</li> <li>Refine a scientific question to make it testable i.e. ask a testable question which includes the change and measure variables, e.g. <i>what would happen to...if we changed...? e.g. What effect would we have on ... if we...? e.g. How would exercise affect the pulse rate?</i></li> <li>Use observations to suggest a further (testable or research) question.</li> <li>Independently ask a variety of scientific questions and decide the type of enquiry needed to answer them.</li> </ul>	<ul style="list-style-type: none"> <li>Research how scientific ideas have developed over time and had an impact on our lives.</li> <li>Use evidence from a variety of sources to justify their ideas</li> <li>Recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact.</li> <li>Interview people to find out information</li> </ul>	<ul style="list-style-type: none"> <li>Make / perform and use their own versions of simple models to describe and explain scientific ideas (e.g. <i>circulatory system drama, periscopes to explain how light travels, burglar alarm to explain components in a circuit</i>).</li> </ul>	<ul style="list-style-type: none"> <li>Propose their own ideas and make decisions with agreement in a group.</li> <li>Support, listen to and acknowledge others in the group.</li> <li>Check the clarity of each other's suggestions.</li> <li>Build on / add to someone else's idea to improve a plan or suggestion.</li> <li>Understand that it is okay to disagree with their peers and offer reasons for their opinion.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>Use their developing scientific knowledge and understanding and relevant scientific language and terminology to discuss, communicate and explain their observations (incl. more abstract ideas from Y5 PoS (e.g. friction, air resistance, forces, Earth and space, reversible and irreversible changes).</li> <li>Evaluate their observations and suggest a further test, offer another question or make a prediction.</li> <li>Observe (including changes over time) and suggest a reason for what they notice.</li> </ul>	<ul style="list-style-type: none"> <li>Suggest reasons for similarities and differences.</li> <li>Compare and contrast things beyond their locality and use these similarities and differences to help to classify (e.g. <i>features of animals, life cycles of different living things, melting compared with dissolving, etc.</i>)</li> <li>Use secondary sources of information to identify and classify.</li> <li>Decide which sources of information (and / or equipment and / or test) to help identify and classify.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise scientific questions that do not yet have definitive answers (linked to Y5 PoS).</li> <li>Refine a scientific question so that it can be tested e.g. 'What would happen to... if we changed...?'</li> <li>Decide whether their questions can be answered by researching or by testing.</li> <li>Independently ask their own scientific questions taking some ownership for finding out the answers.</li> </ul>	<ul style="list-style-type: none"> <li>Find out how scientific ideas have changed / developed over time (linked to Y5 PoS).</li> <li>Articulate and explain findings from their research using scientific knowledge and understanding.</li> <li>Make decisions about which information to use from a wide range of sources.</li> </ul>	<ul style="list-style-type: none"> <li>Perform / create simple models to exemplify scientific ideas using scientific terminology where appropriate (e.g. <i>spheres to represent movements of the Sun and Earth, solar system models, shadow clocks, a simple lever or mechanism</i>).</li> </ul>	<ul style="list-style-type: none"> <li>Propose their own ideas and make decisions with agreement in a group.</li> <li>Support, listen to and acknowledge others in the group e.g. <i>Yes. I prefer that one too.</i></li> <li>Check the clarity of each other's suggestions e.g. <i>are you saying you think this one is a herbivore?</i></li> <li>Build on / add to someone else's idea to improve a plan or suggestion.</li> <li>Understand that it is okay to disagree with their peers and offer a reasons for their opinion.</li> </ul>

	EXPLORING / OBSERVING	GROUPING AND CLASSIFYING	QUESTIONING	RESEARCH	MODELLING <i>Non Statutory</i>	COLLABORATING <i>Non Statutory</i>
Year 4	<ul style="list-style-type: none"> <li>Suggest their own ideas on a concept and compare these with what they observe / find out.</li> <li>Use observations to suggest what to do next.</li> <li><u>Discuss ideas and develop descriptions from their observations using relevant scientific language and vocabulary</u> (from Y4 PoS).</li> <li><u>Observe and record relationships between structure and function or between different parts of a processes</u> (linked to Y4 PoS).</li> <li><u>Observe and record changes / stages over time</u> (linked to Y4 PoS).</li> </ul>	<ul style="list-style-type: none"> <li><u>Make a simple guide to local living things.</u></li> <li><u>Use guides or simple keys to classify / identify [animals, flowering plants and nonflowering plants].</u></li> <li>Use their observations to identify and classify.</li> <li><u>Begin to give reasons for these similarities and differences.</u></li> <li>Record similarities as well as differences and / or changes related to simple scientific ideas or processes or more complex groups of objects / living things / events (e.g. <i>evaporation and condensation, different food chains, different electrical circuits</i>).</li> </ul>	<ul style="list-style-type: none"> <li><u>Ask / raise their own relevant questions with increasing confidence and independence that can be explored, observed, tested or investigated further.</u></li> <li>Ask questions such as "What will happen if...?" or "What if we changed...?" (linked with Y4 PoS).</li> <li><u>Choose / select a relevant question that can be answered [by research or experiment / test].</u></li> </ul>	<ul style="list-style-type: none"> <li><u>Make decisions about which information to use from a wide range of sources and make decisions about how to present their research.</u></li> <li>Recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations.</li> </ul>	<ul style="list-style-type: none"> <li>Make a visual representation or a model of something to represent something they have seen or a process that is difficult to see.</li> <li>Suggest their own ideas on a concept and compare these with models or images.</li> </ul>	<ul style="list-style-type: none"> <li>Make some decisions about an idea within a group (e.g. <i>I think we should find out by testing...</i>)</li> <li>Increasingly support, listen to and acknowledge others in the group.</li> <li>Build on / add to someone else's idea to improve a plan.</li> <li>Understand that it is okay to disagree with their peers and offer reasons for their opinion.</li> </ul>
Year 3	<ul style="list-style-type: none"> <li><u>Observe and record relationships between structure and function</u> (linked to Y3 PoS).</li> <li>Observe and record changes /stages over time (linked to Y3 PoS).</li> <li>Explore / observe things in the local environment / real contexts and record observations (linked to Y3 PoS) – see 'Communicating' section also re links to vocabulary.</li> </ul>	<ul style="list-style-type: none"> <li><u>Decide ways and give reasons for sorting, grouping, classifying, identifying</u> things / objects, living things, processes or events based on specific characteristics.</li> <li><u>Compare and contrast and begin to consider the relationships between different things</u> (e.g. <i>structures of plants, functions of plant parts, diets, skeletons of humans and other animals, changes over time, etc.</i>).</li> <li>Record similarities as well as differences (e.g. <i>what do all skeletons have? as well as the differences between skeletons.</i></li> </ul>	<ul style="list-style-type: none"> <li>Explore their own ideas about 'what if....? scenarios e.g. humans did not have skeletons.</li> <li>Ask questions such as "What if we tried....?" or "What if we changed...?"</li> <li><u>Begin to understand that some questions can be tested in the classroom and some cannot.</u></li> <li>Within a group suggest questions that can be explored, observed, tested or investigated further.</li> <li><u>Within a group suggest relevant questions</u> about what they observe and about the world around them.</li> </ul>	<ul style="list-style-type: none"> <li><u>Find things out using a range of secondary sources of information</u> (e.g. <i>books, photographs, videos and other technology</i>).</li> </ul>	<ul style="list-style-type: none"> <li>Act out or make a model of something to represent something in the real world using appropriate scientific vocabulary verbally.</li> </ul>	<ul style="list-style-type: none"> <li>Begin to make some decisions about an idea within a group from a list of choices (e.g. <i>let's put them all in a pile first OR I think we should try...</i>).</li> <li>With help; support, listen to and acknowledge others in the group (e.g. <i>Yes. I prefer that one too</i>).</li> <li>Build on / add to someone else's idea. (e.g. <i>we could use x as well as y</i>).</li> <li>Begin to understand that it is okay to disagree with their peers and offer a reason for their opinion.</li> </ul>
Year 2	<ul style="list-style-type: none"> <li><u>Use simple scientific language from the Y2 PoS to talk about / record what they have noticed.</u></li> <li>Use observations to make suggestions and / or ask questions.</li> <li><u>Observe and describe simple processes / cycles / changes with several steps</u> (e.g. <i>growth cycle, simple food chain, saying how living things depend on one another</i>).</li> <li><u>Observe closely and communicate with increasing accuracy</u> the features or properties of things in the real world.</li> </ul>	<ul style="list-style-type: none"> <li><b>Name / identify</b> common examples, some common features or different uses.</li> <li><b>Sort and group objects, materials or living things by observable and/or behavioural features.</b></li> <li><b>Compare</b> and contrast... a variety of things [objects, materials or living things] - focusing on the similarities as well as the differences.</li> </ul>	<ul style="list-style-type: none"> <li><u>Raise their own logical questions based on or linked to things they have observed.</u></li> <li>With help / scaffolds, begin to ask questions such as "What will happen if...?"</li> </ul>	<ul style="list-style-type: none"> <li>Talk about how useful the information source was and express opinion about findings.</li> <li>Make suggestions about who to ask or where to look for information.</li> <li>Ask people questions to help them answer their questions.</li> <li><u>Use simple and appropriate secondary sources (such as books, photographs, videos and other technology) to find things out / find answers.</u></li> </ul>	<ul style="list-style-type: none"> <li>Act out something to represent something else about the world around us (e.g. <i>a life cycle</i>).</li> </ul>	<ul style="list-style-type: none"> <li>Share ideas in a group and listen to the ideas of others.</li> <li>Work cooperatively with others on a science task making some choices.</li> </ul>

	EXPLORING / OBSERVING	GROUPING AND CLASSIFYING	QUESTIONING	RESEARCH	MODELLING <i>Non Statutory</i>	COLLABORATING <i>Non Statutory</i>
Year 1	<ul style="list-style-type: none"> <li>Begin to use simple scientific language (from Y1 PoS) to talk about or record what they have noticed.</li> <li>Use observations to make suggestions and / or ask questions.</li> <li>Look / observe closely and communicate changes over time.</li> <li>Look / observe closely and communicate the features or properties of things in the real world.</li> <li>Observe closely using their senses.</li> </ul>	<ul style="list-style-type: none"> <li>Name / identify common examples and some common features.</li> <li>With help, decide how to sort and group objects, materials or living things.</li> <li>Name basic features of objects, materials and living things.</li> <li>Say how things are similar or different.</li> <li>Compare and contrast simple observable features / characteristics of objects, materials and living things.</li> </ul>	<ul style="list-style-type: none"> <li>Ask simple questions about what they notice about the world around them.</li> <li>Demonstrate curiosity by the questions they ask.</li> </ul>	<ul style="list-style-type: none"> <li>Ask people questions (e.g. an expert or hot-seating).</li> <li>Use simple primary and secondary sources (such as objects, books and photographs) to find things out.</li> </ul>	<ul style="list-style-type: none"> <li>With help, follow movements (dance / drama) to act out their science.</li> </ul>	<ul style="list-style-type: none"> <li>Share ideas in a group and listen to the ideas of others.</li> <li>Work with others on a science task.</li> </ul>
EYFS	<ul style="list-style-type: none"> <li>Observe closely using simple equipment / with help, observe changes over time</li> <li>Explore the natural world around them, making observations and drawing pictures of animals and plants (ELG: The Natural World) •</li> <li>Explore different materials and tools (Physical Dev: birth-3)</li> </ul>	<ul style="list-style-type: none"> <li>Make comparisons between objects relating to size, length, weight and capacity (Mathematics: 3-4 years) / compare length, weight and capacity (reception)</li> <li>Use simple features to compare objects, materials and living things and, with help, decide how to sort and group them</li> <li>Sort materials (Creating &amp; Thinking Critically)</li> <li>Explore collections of materials with similar and/or different properties (Understanding the World: 3-4 years)</li> </ul>	<ul style="list-style-type: none"> <li>Notice and ask questions about differences (Personal, Social &amp; Emotional Dev: birth-3)</li> <li>Understand simple questions about 'who', 'what' and 'where' (Communication &amp; Language: 2 years) / understand 'why' questions (3-4 years) / ask questions to find out more (reception)</li> <li>Explore the world around them and raise their own simple questions ask people questions and use simple secondary sources to find answers</li> <li>Listen attentively and respond to what they hear with relevant questions (ELG: Listening, Attention &amp; Understanding)</li> <li>Make choices and explore different resources and materials (Playing &amp; Exploring)</li> </ul>	<ul style="list-style-type: none"> <li>Use all their senses in hands-on exploration of natural materials (Understanding the World: 3-4 years)</li> </ul>		

## Year Group Expectations for Working Scientifically Skills (Grid 2)

	PLANNING AND TESTING	USING EQUIPMENT AND MEASURES	COMMUNICATING	DESCRIBING RESULTS / LOOKING FOR PATTERNS	EXPLAINING RESULTS	TRUSTING RESULTS
UKS2	Using different types of scientific enquiry making decisions about and explaining choices for testing.	Increasing complexity and increasing accuracy and precision Make their own decisions about the data to collect.	Reporting findings, recording data, presenting findings. Read, spell and pronounce scientific vocabulary correctly linked to the relevant year group.	Looking for patterns analysing functions, relationships and interactions more systematically.	Draw conclusions based on / supported by evidence.	Comment on how reliable the data is.
LKS2	Making decisions about and setting up simple practical enquiries, comparative tests and fair test.	Making accurate measurements and gathering data.		Describing their findings/ results.	Reporting on findings saying why something happened.	Suggest improvements for further tests.
KS1	Performing simple tests.	Using simple equipment and gathering data to help in answering their questions.		Talk about what happened / what they noticed.	Talk about what they found out.	Beginning to spot when a method is not fair.
EYFS	Performing simple test with some support	Use simple measurements and equipment (e.g. hand lenses, egg timers) to gather data	Offer their own ideas, using recently introduced vocabulary (ELG: Speaking)	Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate; (ELG: Speaking)	Use their observations and ideas to suggest answers to questions talk about what they have found out and how they found it out	Beginning to spot when a method is not fair with support
Year 6	<ul style="list-style-type: none"> <li>Predict what a graph might look like before collecting results.</li> <li>Make a hypothesis where they say how one thing will affect another and give a reason for their suggestion with a developing understanding of the scientific concept.</li> <li>Identify <b>variables</b> to change, measure and keep the same in order for a test to be <b>fair</b>.</li> <li>Independently plan investigations and explain planning decisions.</li> <li>Decide when it is appropriate to carry out a <b>fair test</b> investigation, comparative test or alternative.</li> </ul>	<ul style="list-style-type: none"> <li><u>Decide whether to repeat any readings and justify the reason for doing so.</u></li> <li><u>Make their own decisions about what measurements to take (and begin to identify the ranges used).</u></li> <li>Make, and act on, suggestions to control / reduce risks to themselves and others.</li> <li><u>Use equipment fit for purpose to take measurements which are increasingly accurate and precise.</u></li> <li>Decide the most appropriate equipment to use to collect data.</li> </ul>	<ul style="list-style-type: none"> <li><u>Articulate understanding of the concept using scientific language and terminology when describing abstract ideas, observations and findings (linked to the Y6 PoS).</u></li> <li>Record data and results of increasing complexity using scientific diagrams and labels, recognised symbols, classification keys, tables, bar and line graphs, and models.</li> <li>Make decisions about how to present and explain their findings through talk, in written forms or in other ways (e.g. using technology).</li> </ul>	<ul style="list-style-type: none"> <li>Spot unexpected results that do not fit the pattern (anomalies).</li> <li><u>Identify patterns in results collected and describe them using the change and measure variables (causal relationships) (e.g. as we increased the number of batteries the brightness the bulb increased).</u></li> </ul>	<ul style="list-style-type: none"> <li>Identify <b>evidence</b> that refutes or <b>supports</b> their ideas.</li> <li><u>Independently form a conclusion which draws on the evidence from the test (linked to Y6 PoS).</u></li> <li><u>Use scientific language and terminology (linked to Y6 PoS) to explain why something happened.</u></li> </ul>	<ul style="list-style-type: none"> <li>Be able to suggest reasons for unexpected results (anomalies).</li> <li><u>Describe how to improve planning to produce more reliable results.</u></li> <li>Say how confident they are that their results are <b>reliable</b> and give a reason.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>Carry our <b>fair tests</b> and other investigations with increasing independence.</li> <li>Suggest more than one possible prediction and begin to suggest which is the most likely. Justify their reason with some knowledge and understanding of the scientific concept.</li> <li><u>Make decisions about which variables to change, measure and keep the same (linked to the appropriate units in the Y5 PoS).</u></li> <li>Make most of the planning decisions for an investigation.</li> <li>Recognise when it is appropriate to carry out a <b>fair test</b>.</li> </ul>	<ul style="list-style-type: none"> <li><u>Make their own decisions about what observations to make or measurements to use and how long to take them for (recognising the need for repeat readings on some occasions).</u></li> <li>Take measurements using a range of scientific equipment with increasing accuracy and using more complex scales / <b>units</b>.</li> <li>Identify possible risks to themselves and others and suggest ways of reducing these.</li> <li>Choose the most appropriate equipment and make <b>accurate</b> measurements.</li> </ul>	<ul style="list-style-type: none"> <li><u>Use their developing scientific knowledge and understanding and relevant scientific language and terminology to communicate more abstract concepts (linked to Y5 PoS).</u></li> <li><u>Present and explain their findings through talk, in written forms or in other ways (e.g. using technology) for a range of audiences / purposes.</u></li> <li><u>Record data and results of increasing complexity using different formats e.g. tables, annotated scientific diagrams, classification keys, graphs and models.</u></li> <li>Make decisions about the most appropriate way of recording data.</li> </ul>	<ul style="list-style-type: none"> <li>Describe straightforward patterns in results linking cause and effect e.g. using <b>er</b> or the word '<b>more</b>' (e.g. the longer, thinner shapes move through the water <b>more</b> quickly OR the larger, the wings, the longer it takes the spinner to fall).</li> <li>Look for / notice relationships between things and begin to describe these.</li> <li><u>Comment on the results and whether they support the initial prediction.</u></li> </ul>	<ul style="list-style-type: none"> <li>Use their scientific knowledge and understanding and appropriate scientific language and terminology (linked to Y5 PoS) to explain their findings and data and answer their initial question.</li> <li><u>Draw a valid conclusion (explain why it happened) based on their data and observations (from Y5 PoS).</u></li> </ul>	<ul style="list-style-type: none"> <li>Begin to recognise how repeated readings improve the <b>reliability</b> of results.</li> <li><u>Compare results with others and comment on how reliable they are.</u></li> </ul>

	PLANNING AND TESTING	USING EQUIPMENT AND MEASURES	COMMUNICATING	DESCRIBING RESULTS / LOOKING FOR PATTERNS	EXPLAINING RESULTS	TRUSTING RESULTS
Year 4	<ul style="list-style-type: none"> <li>Carry out simple <b>fair tests</b> with increasing confidence investigating the effect of something on something else (linked to Y4 PoS).</li> <li>Start to make their own decisions about the most appropriate type of science enquiry they might use to answer scientific questions (<i>Is a fair test the best way to investigate their question?</i>)</li> <li>Make a <b>prediction</b> based on the knowledge acquired from previous explorations / observations and apply it to a new situation.</li> <li>Explain their planning decisions and choices.</li> <li>Make some of the planning decisions about what to change and measure / observe.</li> <li>Begin to recognise when a <b>fair test</b> is necessary.</li> </ul>	<ul style="list-style-type: none"> <li>Begin to identify where patterns might be found and use this to <b>begin to identify what data to collect</b>.</li> <li>Make more of the decisions about what observations to make, how long to make them for and the type of equipment that might be used.</li> <li>Recognise obvious risks and how to keep themselves and others safe.</li> <li>Learn how to use new equipment, such as <b>data loggers and measure temperature in degrees Celsius (°C)</b> using a thermometer.</li> <li>Collect data from their own observations and measurements, using notes / simple tables / standard units.</li> <li>Make <b>accurate</b> measurements using standard units [and more complex units and parts of units] using a range of equipment and scales.</li> </ul>	<ul style="list-style-type: none"> <li>Record findings using relevant scientific language and vocabulary (from Y4 PoS), including discussions, oral and written explanations, notes, drawings (annotated), pictorial representations, labelled diagrams, tables and bar charts [where intervals and ranges agreed through discussion], displays or presentations.</li> <li>Begin to select the most useful ways to collect, record, classify and present data from a range of choices.</li> <li>Make decisions on how best to communicate their findings in ways that are appropriate for different audiences.</li> </ul>	<ul style="list-style-type: none"> <li>Notice / find patterns in their observations and data. (<i>Describe the effect of something on something else.</i>) (<i>e.g. as I lengthen the ruler I notice that the pitch gets lower.</i>)</li> <li>With some independence, analyse results / observations by writing a sentence that matches the <b>evidence</b> i.e. deciding the important aspect of the result and summarising in a <b>conclusion</b> (<i>e.g. metals tend to be good conductors of electricity.</i>)</li> </ul>	<ul style="list-style-type: none"> <li>Begin to develop their ideas about relationships and interactions between things and explain them.</li> <li>Use relevant scientific language and vocabulary (from Y4 PoS) to <b>begin to say / explain why something happened</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Use results to suggest improvements, new questions and / or predictions for setting up further tests.</li> <li>Compare their results with others and give reasons why results might be different.</li> </ul>
Year 3	<ul style="list-style-type: none"> <li>Help to decide about how to set up a simple <b>fair test</b> and begin to recognise when a test is not fair.</li> <li>Make a <b>prediction</b> based on everyday experience.</li> <li>With support / as a group, set up simple practical enquiries including comparative and <b>fair tests</b> e.g. make a choice from a list of a things (variables) to change when conducting a <b>fair test</b>. (<i>e.g. choose which magnets to compare and which method to use to test their strength.</i>)</li> <li>As a group, begin to make some decisions about the best way of answering their questions.</li> <li>Find / suggest a practical way to compare things e.g. rocks, magnets.</li> </ul>	<ul style="list-style-type: none"> <li>Collect data from their own observations and measurements using notes / simple tables / standard units.</li> <li>Help to make some decisions about what observations to make, how long to make them for, the type of simple equipment that might be used and how to work safely.</li> <li>Make simple <b>accurate</b> measurements using whole number standard units, using a range of equipment.</li> <li>Gather data in a variety of ways to help in answering questions.</li> <li>Use equipment <b>accurately</b> to improve the detail of their measurements / observations (<i>e.g. microscopes, measuring syringes, measuring cylinders, hand lenses.</i>)</li> </ul>	<ul style="list-style-type: none"> <li>Record and present findings using simple scientific language and vocabulary from the Y3 PoS, including discussions, oral and written explanations, notes, annotated drawings, pictorial representations, labelled diagrams, simple tables, bar charts (using scales chosen for them), displays or presentations.</li> <li>With scaffold / support record, and present data in a variety of ways to help in answering questions.</li> <li>Communicate their findings in ways that are appropriate for different audiences. (linked to Y3 PoS).</li> </ul>	<ul style="list-style-type: none"> <li>With scaffold / support, describe and compare the effect of different factors on something (<i>e.g. we noticed that larger magnets are not always stronger.</i>)</li> <li>With help, look for changes and simple patterns in their observations, data, chart or graph.</li> <li>Use their results to consider whether they met their <b>predictions</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Use their experience and some <b>evidence</b> or results to draw a simple <b>conclusion</b> to answer their original question.</li> <li>Write a simple explanation of why things happened (using the word 'because') and using simple scientific language and vocabulary from the Y3 PoS.</li> </ul>	<ul style="list-style-type: none"> <li>Say whether what happened was what they expected and notice any results that seem odd.</li> <li>Begin to recognise when a test is not fair and suggest improvements.</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>Carry out simple comparative tests as part of a group, following a <b>method</b> with some independence.</li> <li>Make a simple prediction about what might happen and try to give a vague reason (even though it might not be correct).</li> <li>With support, make suggestions on a <b>method</b> for setting up a simple comparative test.</li> <li>Talk about a practical way to find answers to their questions.</li> </ul>	<ul style="list-style-type: none"> <li>Measure using non-standard and simple standard measures (e.g. cm, time) with increasing accuracy.</li> <li>Begin to make decisions about which equipment to use.</li> <li>Correctly and safely use <b>equipment</b> provided to make observations and/or take simple measurements.</li> </ul>	<ul style="list-style-type: none"> <li>Record and communicate their findings in a range of ways to a variety of audiences.</li> <li>Use simple scientific language with increasing accuracy (from Y2 PoS).</li> <li>Record simple data with some accuracy to help in answering questions: <ul style="list-style-type: none"> <li>With support or using frameworks, make decisions about how to complete a variety of tables/charts (<i>e.g. a 2 column table, tally charts, Venn diagram, pictograms, block graphs with 1:1 scale.</i>)</li> <li>Present findings in a class displays.</li> <li>Sequence / annotate photographs of change over time.</li> </ul> </li> <li>Produced increasingly detailed drawings which are labelled / annotated.</li> </ul>	<ul style="list-style-type: none"> <li>With guidance, begin to notice <b>patterns</b> in their data e.g. order their findings, sequence best to worst, say what happened over time, etc.</li> <li>Recognise if <b>results</b> matched <b>predictions</b> (say if results were what they expected).</li> <li>Use their recordings to talk about and describe what has happened.</li> </ul>	<ul style="list-style-type: none"> <li>Begin to use simple scientific language (from Y2 PoS) to explain what they have found out.</li> <li>Give a simple, logical reason why something happened (<i>e.g. I think ... because...</i>).</li> </ul>	<ul style="list-style-type: none"> <li>Begin to discuss if the test was unfair.</li> </ul>

	PLANNING AND TESTING	USING EQUIPMENT AND MEASURES	COMMUNICATING	DESCRIBING RESULTS / LOOKING FOR PATTERNS	EXPLAINING RESULTS	TRUSTING RESULTS
Year 1	<ul style="list-style-type: none"> <li>With help, <b>carry out</b> a simple test / comparative test.</li> <li>With help, make a simple prediction or suggestion about what might happen.</li> <li>Begin to suggest some ideas e.g. choose which equipment to use, choose which materials to test from a selection.</li> <li><b>Talk</b> about ways of setting up a test.</li> </ul>	<ul style="list-style-type: none"> <li><b>Measure</b> using non-standard units e.g. how many lolly sticks / cubes / handfuls, etc.</li> <li><b>Observe closely, using simple equipment</b> (e.g. hand lenses, egg timers).</li> <li>Use senses to <b>compare</b> different textures, sounds and smells.</li> </ul>	<ul style="list-style-type: none"> <li>Communicate their ideas to a range of audiences in a variety of ways.</li> <li>Complete a pre-constructed table / chart using picture records or simple words.</li> <li>Contribute to a class display.</li> <li><b>Add annotations to drawings or photographs.</b></li> <li><b>Begin to use some simple scientific language</b> from Y1 PoS.</li> <li><b>Record</b> simple visual representations of observations made.</li> </ul>	<ul style="list-style-type: none"> <li>Use recordings to talk about and describe what happened.</li> <li>Sequence photographs of an event / observation.</li> </ul>	<ul style="list-style-type: none"> <li>Begin to use simple scientific language (from Y1 PoS) to talk about what they have found out or why something happened.</li> </ul>	<ul style="list-style-type: none"> <li>N/A in Y1.</li> </ul>
EYFS	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>Use simple measurements and equipment (e.g. hand lenses, egg timers) to gather data</li> <li>Choose the right resources to carry out their own plan (Physical Dev 3-4 years) / develop their small motor skills so that they can use a range of tools competently, safely and confidently (reception)</li> </ul>	<ul style="list-style-type: none"> <li>Use a wider range of vocabulary (Communication &amp; Language: 3-4 years) / learn new vocabulary &amp; use new vocabulary through the day and in different contexts (reception)</li> <li>Talk about what they see, using a wide vocabulary (Understanding The World: 3-4 years)</li> <li>Offer their own ideas, using recently introduced vocabulary (ELG: Speaking)</li> <li>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class (ELG: The Natural World)</li> </ul>	<ul style="list-style-type: none"> <li>Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate; (ELG: Speaking)</li> <li>Use drawing to represent ideas (Expressive Arts &amp; Design: 3-4 years) / return to and build on their previous learning, refining ideas and developing their ability to represent them (reception)</li> <li>Notice patterns and arrange things in patterns (Mathematics: birth-3) / talk about and identifies the patterns around them (3-4 years) / continue, copy and create repeating patterns (reception)</li> </ul>	<ul style="list-style-type: none"> <li>Use their observations and ideas to suggest answers to questions talk about what they have found out and how they found it out</li> </ul>	<ul style="list-style-type: none"> <li>N/A in Y1.</li> </ul>



## Art and Design: End of Year Expectation

	Produce creative work, exploring their ideas and recording their experiences	Know about great artists, craft makers and designers and understand the historical and cultural development of their art forms	Become proficient in drawing, painting, sculpture and other art, craft and design techniques	Evaluate and analyse creative works using the language of art, craft and design
Year 6	<ul style="list-style-type: none"> <li>▶ Independently investigate a range of starting points for their work, and confidently develop their ideas further.</li> <li>▶ Record their thoughts and experiences in a sketch book / 'ideas journal', and review and revisit these ideas as their work develops.</li> <li>▶ Are confident to work creatively, adapting ideas, and taking risks when choosing tools, materials and media.</li> <li>▶ Confidently use language appropriate to the chosen art form, to help them to explain their ideas.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Critically analyse the styles of a range of <b>fashion designers from the 1960s</b> and use this to inform their own work.</li> <li>▶ Explain how a chosen fashion designer (<b>1960s</b>) has contributed to the culture and /or history of a specific nation.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use learnt techniques in sculpture – <b>Greek Masks</b>.</li> <li>▶ Use their knowledge of craft and design techniques, imaginatively to create their own style – <b>1960s fashion: Printing on fabric</b>.</li> <li>▶ Develop their own style when working with a wide range of tools and materials, e.g. working into prints using their own choice of media such as pens, ballpoint pens, paints.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use language specific to a range of techniques to identify effective and ineffective features and use this to inform and evaluate their own work.</li> <li>▶ Use sketch book / 'ideas journal' to adapt and critically evaluate their work as their ideas develop.</li> <li>▶ Annotations reflect their critical evaluations and development of ideas.</li> <li>▶ Reflect on the ways in which their imaginative work has developed from a range of starting points.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>▶ Investigate a range of starting points for their work, and choose which idea to develop further.</li> <li>▶ Record their thoughts and experiences in a sketch book / 'ideas journal', and annotate these in order to aid the development of their ideas.</li> <li>▶ Explain how they are developing their ideas as they work, and use language appropriate to the chosen art form.</li> <li>▶ Use creative thinking to adapt an initial idea, e.g. experiment with alternative colour palette.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Critically analyse the styles of artists and use this to inform their own work – link to <b>Rainforests by Rousseau</b>.</li> <li>▶ Understand how a chosen artist (<b>Rousseau Rainforest</b>) has contributed to the culture and / or history of a specific nation.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use learnt techniques in drawing.</li> <li>▶ Use their knowledge of painting (<b>Rousseau</b>) e.g. adapting the style of an artist to create their own effect.</li> <li>▶ Are confident when working with a wide range of tools and materials to create different effects, e.g. use a graphics package to manipulate an image by applying a filter. – <b>Use Linea Sketch on iPads</b></li> </ul>	<ul style="list-style-type: none"> <li>▶ Use appropriate language when comparing ideas, methods and approaches in their own and others' work.</li> <li>▶ Describe what they think and feel about their own and others' work and how this might influence their designs.</li> <li>▶ Use sketch book / 'ideas journal' to evaluate and adapt their work as their ideas develop; make annotations in their books to show their ongoing evaluations and how they might develop their work further.</li> </ul>
Year 4	<ul style="list-style-type: none"> <li>▶ Investigate different starting points for their work, and choose which idea to develop further.</li> <li>▶ Record their thoughts and experiences in a sketch book / 'ideas journal', and begin to annotate these.</li> <li>▶ Explain how they are developing their ideas as they work, and are beginning to use language appropriate to the chosen style of art.</li> <li>▶ Use creative thinking to begin to adapt an initial idea, e.g. experiment with alternative colour palette.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Discuss and analyse the styles of artists, craft makers or designers and use this to inform their own work.</li> <li>▶ Understand the historical and / or cultural significance of the work of a chosen artist / art form (<b>one from Monet, Surat or Mondrian</b>).</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use learnt techniques in painting – linked to a European artist (<b>Monet – Water Lilies, Surat - Sunday on the Grande Jatte, Mondrian – Wee Blue Coo</b>).</li> <li>▶ Use learnt techniques in craft and design in different contexts and with a variety of materials - use knowledge of weaving to create a <b>willow/hazel sculpture in forest school</b>.</li> <li>▶ Demonstrate control of a range of tools and materials to create desired effects in painting (e.g. <b>watercolour, Pointillism, Cubism</b>)</li> </ul>	<ul style="list-style-type: none"> <li>▶ Compare ideas, methods and approaches in their own and others' work, e.g. talk about the features they like and the changes they would make to a piece of art work.</li> <li>▶ Use sketch book / 'ideas journal' to adapt their work as their ideas develop; make annotations in their books to describe how they might develop their work further.</li> </ul>

	Produce creative work, exploring their ideas and recording their experiences	Know about great artists, craft makers and designers and understand the historical and cultural development of their art forms	Become proficient in drawing, painting, sculpture and other art, craft and design techniques	Evaluate and analyse creative works using the language of art, craft and design
Year 3	<ul style="list-style-type: none"> <li>▶ Choose their own starting point from a range of ideas e.g. a visit to an art gallery, an artefact, digital images, experiences.</li> <li>▶ Begin to record their thoughts and experiences in a sketch book / 'ideas journal'.</li> <li>▶ Explain the reasons for their ideas, and discuss and answer questions about how their ideas have developed.</li> <li>▶ Show confidence and independence when working creatively e.g. with a range of media on different scales.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Discuss the styles of artists, craft makers or designers and use this to inform their own work.</li> <li>▶ Begin to understand the historical and/or cultural significance of a chosen artist /art form – <b>Stone Age: Lascaux cave paintings.</b></li> <li>▶</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use learnt techniques in drawing – with charcoal. Start with <b>Stone Age cave painting</b> then develop.</li> <li>▶ Use learnt techniques in sculpture – <b>Stone Age pots</b> - and other art, craft and design in different contexts, e.g. work on different scales both independently and collaboratively.</li> <li>▶ Demonstrate control of chosen tools and materials to create a desired effect, e.g. <b>imprinting in clay, smudging charcoal for shading</b></li> <li>▶</li> </ul>	<ul style="list-style-type: none"> <li>▶ Compare ideas, methods and approaches in their own and others' work, e.g. talk about the features they like in a piece of art work.</li> <li>▶ Use sketch book / 'ideas journal' to adapt their work as their ideas develop, and discuss this with others.</li> <li>▶</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>▶ Develop and record their ideas through painting, drawing, sculpture in response to first hand observations, e.g. real objects, photographs, artefacts, and experiences.</li> <li>▶ Talk about and answer questions about the starting point, and choices they have made, e.g. chosen tools, media, materials.</li> <li>▶ Show confidence in working creatively e.g. with a range of media on different scales.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise the styles of artists, craft makers or designers – <b>William Morris, Arts and Crafts</b> - and use this to inform their own work.</li> <li>▶ Talk about the similarities and differences between different artists, craft makers or designers – <b>compare to modern wallpaper.</b></li> <li>▶</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to use drawing - look at different implements (pencils, pastels, felt tips) and the different effects that can be created including shading and cross-hatching,</li> <li>▶ Begin to use painting – looking at developing texture by using acrylics, adding sand, adding glue, etc,</li> <li>▶ Art, craft and design techniques - <b>Arts and Crafts wallpaper (link to Victorians)</b> - to explore the use of line, texture, colour, shape to create different effects,</li> <li>▶ Begin to demonstrate control of tools and materials of their choice to create a desired effect, e.g. textures paint for designing wallpaper.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Talk about the techniques, materials and equipment used in their work and the work of others, e.g. 'I used a cotton bud to add dots'.</li> <li>▶ Describe what they like about their own work and the work of others using appropriate language e.g. 'I like the way a fine tip brush is used to add detail'.</li> <li>▶ Adapt and make changes to their work and the tools they use as it develops.</li> <li>▶ Describe how they have changed and adapted their work for a specific purpose, e.g. use of specific tools to create more texture.</li> </ul>
Year 1	<ul style="list-style-type: none"> <li>▶ Explore and record their own ideas through painting, drawing, sculpture, in response to first hand observations, e.g. real objects, pictures, artefacts, and experiences.</li> <li>▶ Talk about their ideas and the choices they have made, e.g. chosen tools, media, materials.</li> <li>▶ Beginning to work creatively e.g. with a range of media on different scales.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe what they think and feel about the work of a chosen artist, craft maker or designer.</li> <li>▶ Begin to talk about the style of a chosen artist, craft maker or designer.</li> <li>▶</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to use drawing look at different implements (pencils, pastels, felt tips) and the different effects that can be created.</li> <li>▶ Begin to use painting looking at mixing colours to make new colours that match what they need.</li> <li>▶ Begin to use sculpture – <b>make a coin with the Queen's head and their own choice on the other side</b></li> <li>▶ Begin to demonstrate control of given tools and materials to create a desired effect, e.g. change the size of tool to make marks in clay</li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe some of the art and design techniques they have used in their work, e.g. painting, collage, printing, drawing and sculpture.</li> <li>▶ Talk about the features they like in their own work and in the work of others.</li> <li>▶ Talk about what they might change in their own work.</li> </ul>

	Produce creative work, exploring their ideas and recording their experiences	Know about great artists, craft makers and designers and understand the historical and cultural development of their art forms	Become proficient in drawing, painting, sculpture and other art, craft and design techniques	Evaluate and analyse creative works using the language of art, craft and design
EYFS	<p><b>Creating with materials</b></p> <ul style="list-style-type: none"> <li>▶ Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li> </ul> <p><b>UTW:</b> The Natural World</p> <ul style="list-style-type: none"> <li>▶ Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> <li>▶</li> </ul>	<p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>▶ I know that artists create works of art.</li> <li>▶ I can talk about what I see in a picture or piece of art.</li> <li>▶</li> </ul>	<p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>▶ I know that when I mix two colours it makes a different colour.</li> <li>▶ I know how to match the colours I see to what I want to represent.</li> <li>▶ I know how to use paint tools with care and precision.</li> <li>▶ I know how to use a paint brush and pallet.</li> <li>▶ I know how to draw a simple face.</li> <li>▶ I know that materials can be joined / mixed to create interesting effects.</li> <li>▶ I can draw the things I see around me, making simple representations.</li> </ul>	<p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>▶ I can talk about my artwork.</li> </ul> <p><b>Creating with materials</b></p> <ul style="list-style-type: none"> <li>▶ Share their creations, explaining the process they have used.</li> <li>▶</li> </ul>

## Design and Technology: End of Year Expectations

	Design	Make	Evaluate	Technical Knowledge (Select as appropriate to the focus of the design and technology focuses in the year group)	Cooking and Nutrition
Year 6	<ul style="list-style-type: none"> <li>▶ Plan the sequence of work.</li> <li>▶ Devise step by step plans which can be read / followed by someone else.</li> <li>▶ Use exploded diagrams and cross-sectional diagrams to communicate ideas.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Make prototypes.</li> <li>▶ Use researched information to inform decisions.</li> <li>▶ Produce detailed lists of ingredients / components / materials and tools.</li> <li>▶ Refine their product – review and rework / improve.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Identify the strengths and weaknesses of their design ideas.</li> <li>▶ Report using correct technical vocabulary.</li> <li>▶ Discuss how well the finished product meets the design criteria having tested on/discussed outcomes with the user.</li> <li>▶ Understand how key people have influenced design in a variety of contexts.</li> <li>▶ Investigate key events and individuals in design and technology.</li> </ul>	<p><b>60s inspired clothing (Barbie sized) and Lighthouse</b></p> <ul style="list-style-type: none"> <li>▶ Use the correct vocabulary appropriate to the project.</li> <li>▶ Join materials using appropriate methods.</li> <li>▶ Create 3-D textile products using pattern pieces.</li> <li>▶ Understand pattern layout with textiles.</li> <li>▶ Use electrical systems such as motors and switches.</li> </ul>	<p><b>Make Greek food</b></p> <ul style="list-style-type: none"> <li>▶ Understand and apply the principles of a healthy and varied diet.</li> <li>▶ Choose ingredients to support healthy eating choices when designing their food products.</li> <li>▶ Prepare and cook a variety of mostly savoury dishes using a range of cooking techniques.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>▶ Record ideas using annotated diagrams.</li> <li>▶ Use models, kits and drawings to help formulate design ideas.</li> <li>▶ Sketch and model alternative ideas.</li> <li>▶ Decide which design idea to develop.</li> <li>▶ Use CAD where appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Develop one idea in depth.</li> <li>▶ Select from and use a wide range of tools.</li> <li>▶ Cut accurately and safely to a marked line.</li> <li>▶ Select from and use a wide range of materials.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Research and evaluate existing products.</li> <li>▶ Consider user and purpose.</li> <li>▶ Consider and explain how the finished product could be improved related to design criteria.</li> <li>▶ Investigate key events and individuals in design and technology.</li> </ul>	<p><b>Orrery (spinning solar system)</b></p> <ul style="list-style-type: none"> <li>▶ Use the correct vocabulary appropriate to the project.</li> <li>▶ Cut strip wood, dowel, square section wood accurately to 1mm.</li> <li>▶ Build frameworks to support mechanisms.</li> <li>▶ Stiffen and reinforce complex structures.</li> <li>▶ Use mechanical systems such as cams, pulleys and gears.</li> <li>▶ Program, monitor and control using ICT.</li> </ul>	<p><b>Make Flat breads</b></p> <ul style="list-style-type: none"> <li>▶ Understand and apply the principles of a healthy and varied diet.</li> <li>▶ Choose ingredients to support healthy eating choices when designing their food products.</li> <li>▶ Prepare and cook a variety of mostly savoury dishes using a range of cooking techniques.</li> </ul>

	Design	Make	Evaluate	Technical Knowledge (Select as appropriate to the focus of the design and technology focuses in the year group)	Cooking and Nutrition
Year 4	<ul style="list-style-type: none"> <li>▶ Record the plan by drawing using annotated sketches.</li> <li>▶ Use prototypes to develop and share ideas.</li> <li>▶ Consider aesthetic qualities of materials chosen.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Select from techniques for different parts of the process.</li> <li>▶ Select from a range of tools for cutting, shaping, joining and finishing.</li> <li>▶ Use tools with accuracy.</li> <li>▶ Select from materials according to their functional properties.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Draw / sketch existing products in order to analyse and understand how products are made.</li> <li>▶ Identify the strengths and weaknesses of their design ideas in relation to purpose / user.</li> <li>▶ Consider and explain how the finished product could be improved.</li> <li>▶ Investigate key events and individuals in design and technology.</li> </ul>	<p><b>Bridge Making with warning system (light and buzzer)</b></p> <ul style="list-style-type: none"> <li>▶ Use an increasingly appropriate technical vocabulary for tools and materials</li> <li>▶ Prototype a product.</li> <li>▶ Strengthen frames with diagonal struts.</li> <li>▶ Measure and mark square section, strip and dowel accurately to 1cm.</li> <li>▶ Incorporate a circuit into a model.</li> <li>▶ Use electrical systems such as switches bulbs and buzzers.</li> <li>▶ Use linkages to make movement larger or more varied.</li> </ul>	<p><b>Make Viking Food</b></p> <ul style="list-style-type: none"> <li>▶ Follow instructions / recipes.</li> <li>▶ Join and combine a range of ingredients.</li> <li>▶ Begin to understand the food groups on the <i>Eatwell Plate</i>.</li> </ul>
Year 3	<ul style="list-style-type: none"> <li>▶ Develop more than one design or adaptation of an initial design.</li> <li>▶ Plan a sequence of actions to make a product.</li> <li>▶ Think ahead about the order of their work and decide upon tools and materials.</li> <li>▶ Propose realistic suggestions as to how they can achieve their design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use appropriate finishing techniques.</li> <li>▶ Prepare pattern pieces as templates for their design.</li> <li>▶</li> </ul>	<ul style="list-style-type: none"> <li>▶ Investigate similar products to the one to be made to give starting points for a design.</li> <li>▶ Research needs of user.</li> <li>▶ Decide which design idea to develop.</li> <li>▶ Consider and explain how the finished product could be improved.</li> <li>▶ Discuss how well the finished product meets the user's design criteria.</li> <li>▶ Investigate key events and individuals in design and technology.</li> </ul>	<p><b>Roman purse</b></p> <ul style="list-style-type: none"> <li>▶ Use an increasingly appropriate technical vocabulary for tools materials and their properties.</li> <li>▶ Understand seam allowance.</li> <li>▶ Prototype a product.</li> <li>▶ Sew on buttons and make loops.</li> </ul>	<p><b>Make Asian Food</b></p> <ul style="list-style-type: none"> <li>▶ Follow instructions / recipes.</li> <li>▶ Join and combine a range of ingredients.</li> <li>▶ Begin to understand the food groups on the <i>Eatwell Plate</i>.</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>▶ Propose more than one idea for their product.</li> <li>▶ Use ICT to communicate ideas.</li> <li>▶ Use drawings to record ideas as they are developed.</li> <li>▶ Add notes to drawings to help explanations.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Discuss their work as it progresses.</li> <li>▶ Select and name the tools needed to work the materials.</li> <li>▶ Explain which materials they are using and why.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Decide how existing products do / do not achieve their purpose.</li> <li>▶ Discuss how closely their finished product meets their own design criteria.</li> </ul>	<p><b>Shelter Building</b></p> <ul style="list-style-type: none"> <li>▶ Start to use technical vocabulary.</li> <li>▶ Cut out shapes which have been created by drawing round a template.</li> <li>▶ Join materials in a variety of ways.</li> <li>▶ Know some different ways of making things move in a 2-D plane.</li> </ul>	<p><b>Food Around the World</b></p> <ul style="list-style-type: none"> <li>▶ Cut, peel, grate, chop a range of ingredients.</li> <li>▶ Work safely and hygienically.</li> <li>▶ Know about the <i>Eatwell Plate</i>.</li> <li>▶ Understand where food comes from.</li> </ul>

	Design	Make	Evaluate	Technical Knowledge (Select as appropriate to the focus of the design and technology focuses in the year group)	Cooking and Nutrition
Year 1	<ul style="list-style-type: none"> <li>▶ Use pictures and words to convey what they want to design / make.</li> <li>▶ Explore ideas by rearranging materials.</li> <li>▶ Select pictures to help develop ideas.</li> <li>▶ Use mock-ups e.g. recycled material trial models to try out their ideas.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Select materials from a limited range.</li> <li>▶ Explain what they are making.</li> <li>▶ Name the tools they are using.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Explore existing products and investigate how they have been made (including teacher-made examples).</li> <li>▶ Talk about their design as they develop and identify good and bad points.</li> <li>▶ Say what they like and do not like about items they have made and attempt to say why.</li> </ul>	<p><b>Make Houses linked to 3 Little Pigs</b></p> <ul style="list-style-type: none"> <li>▶ Start to use technical vocabulary.</li> <li>▶ Show how to stiffen some materials.</li> <li>▶ Know how to make a simple structure more stable.</li> <li>▶ Decorate using a variety of techniques.</li> <li>▶ Know some ways of making structures stronger.</li> </ul>	<p><b>Gingerbread linked Ninja bread man</b></p> <ul style="list-style-type: none"> <li>▶ Group familiar food products e.g. fruit and vegetables.</li> <li>▶ Cut and chop a range of ingredients.</li> <li>▶ Work safely and hygienically.</li> <li>▶ Know about the need for a variety of foods in a diet.</li> </ul>
EYFS	<p><b>Creating with materials</b></p> <ul style="list-style-type: none"> <li>• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li> <li>• Share their creations, explaining the process they have used.</li> </ul>	<ul style="list-style-type: none"> <li>▶ I know how to use scissors safely.</li> <li>▶ I know how to use scissors safely.</li> <li>▶ I can cut along a straight line.</li> <li>▶ I can cut along a wavy line.</li> <li>▶ I can join to items using tape.</li> <li>▶ I can use glue to fix items together</li> <li>▶ I know how draw a plan.</li> <li>▶ I know that I can adapt and change something I have made.</li> <li>▶ I can work with a friend, sharing ideas.</li> <li>▶ I know that some materials are better for building with than others.</li> <li>▶ I can talk about what I have made and say why.</li> </ul>	<ul style="list-style-type: none"> <li>▶</li> </ul>		

## Geography: End of Year Expectations

	Locational and Place knowledge	Human and Physical Geography	Geographical Skills: Enquiry and Investigation	Geographical Skills: Fieldwork	Geographical Skills: Interpret a range of Sources of Geographical Information	Geographical Skills: Communication Geographical Information
Year 6	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- Countries in North America and Asia</li> <li>- Use maps to locate LEDCs and MEDCs</li> <li>- Look at maps of the world from different perspectives and apply knowledge to name countries</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise patterns in human and physical features and understand some of the conditions, processes or changes which influence these patterns – link key data to LEDCs and MEDCs e.g. birth rate, GDP, mortality rate</li> <li>▶ Demonstrate understanding of how and why some features or places are similar or different and how and why they change – look at how cities change over time and why – link to slavery unit and Liverpool.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and respond to questions that are more causal e.g. What happened in the past to cause that? How is it likely to change in the future?</li> <li>▶ Make predictions and test simple hypotheses about people, places and geographical issues.</li> </ul>	<p><b>Study of buildings and amenities in Liverpool</b></p> <ul style="list-style-type: none"> <li>▶ Observe, measure, and record human features using a range of methods e.g. sketch maps, plans, graphs, and digital technologies.</li> <li>▶ Use a range of numerical and quantitative skills to analyse, interpret and present data collected from fieldwork observations, measurements and recordings.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Interpret a wider range of geographical information and maps including scale, projections, thematic, and digital maps – use maps to decide if a location is more or less economically developed.</li> <li>▶ Recognise an increasing range of Ordnance Survey symbols on maps</li> <li>▶ Locate features using six-figure grid references.</li> <li>▶ Understand what contours mean on a map</li> </ul>	<ul style="list-style-type: none"> <li>▶ Develop their views and attitudes to critically evaluate responses to local geographical issues or global issues and events.</li> <li>▶ Communicate geographical information using a wide range of methods including writing at increasing length.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- Countries in Central and South America</li> <li>- Use Tropics to locate the Rainforests</li> <li>- Locate the Ring of Fire</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Use geographical language to identify and explain key aspects of human and physical features and patterns as well as links and interactions between people, places and environments. - Rainforests</li> <li>▶ Explain some links and interactions between people, places and environments - <b>Rainforests</b></li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and respond to questions that are more causal e.g. Why is that happening in that place? Could it happen here?</li> <li>▶ Recognise geographical issues affecting people in different places and environments.</li> </ul>	<p><b>Study of vegetation in school linked to Science and compared to Rainforests</b></p> <ul style="list-style-type: none"> <li>▶ Observe, measure, and record physical features using a range of methods e.g. sketch maps, plans, graphs, and digital technologies.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use a range of maps and other sources of geographical information and select the most appropriate for a task.</li> <li>▶ Locate features using four-figure grid references.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Express and explain their opinions on geographical and environmental issues and recognise why other people may think differently.</li> <li>▶ Choose from a range of methods e.g. digital maps, plans, when communicating geographical information.</li> </ul>

	<b>Locational and Place knowledge</b>	<b>Human and Physical Geography</b>	<b>Geographical Skills: Enquiry and Investigation</b>	<b>Geographical Skills: Fieldwork</b>	<b>Geographical Skills: Interpret a range of Sources of Geographical Information</b>	<b>Geographical Skills: Communication Geographical Information</b>
<b>Year 4</b>	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- Countries in Africa</li> <li>- Other capital cities of Europe not covered in Y2</li> <li>- Major rivers of the World</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Use geographical language to identify and explain some aspects of human and physical features and patterns – maps of River Nile going through the desert.</li> <li>▶ Describe how features and places change and the links between people and environments – link to River Nile and how it shapes life in Egypt.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and respond to more searching geographical questions including ‘how?’ and ‘why?’</li> <li>▶ Identify and describe similarities, differences and patterns when investigating different places, environments and people.</li> </ul>	<p><b>Study of Rivers and how the River Nile shaped life in Egypt</b></p> <ul style="list-style-type: none"> <li>▶ Observe, record, and explain physical and human features of the environment.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use a range of sources including digital and Ordnance Survey maps, atlases, globes and satellite images to research geographical information.</li> <li>▶ Demonstrate an understanding of the difference between OS and other maps and when it is most appropriate to use each</li> </ul>	<ul style="list-style-type: none"> <li>▶ Express their opinions on environmental issues and recognise that other people may think differently.</li> <li>▶ Communicate geographical information through a range of methods including digital maps, plans, graphs and presentations.</li> </ul>
<b>Year 3</b>	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- Main Countries in Asia</li> <li>- Major mountain ranges of the World</li> <li>- Main counties of the British Isles</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Use geographical language to describe some aspects of human and physical features and patterns – linked to settlement and Mountains.</li> <li>▶ Make observations about places and features that change over time.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer more searching geographical questions when investigating different places and environments.</li> <li>▶ Identify similarities, differences and patterns when comparing places and features.</li> </ul>	<p><b>Study of Ormskirk</b></p> <ul style="list-style-type: none"> <li>▶ Observe, record, and name geographical features in their local environments.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use a range of sources including digital maps, atlases, globes and satellite images to research and present geographical information – look at mountain ranges in different sources.</li> <li>▶ Use the eight compass points and recognise some Ordnance Survey symbols on maps – roads, rivers, water, trees.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Express their opinions on environmental issues and recognise how people can affect the environment both positively and negatively.</li> <li>▶ Communicate geographical information through a range of methods including the use of ICT.</li> </ul>
<b>Year 2</b>	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- The countries in Europe</li> <li>- The capital cities of the main countries in Europe (must include Rome, Paris, London, Athens, Madrid, Berlin)</li> <li>- Ormskirk and other local towns/villages that link to the class.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe places and features using simple geographical vocabulary.</li> <li>▶ Make observations about features that give places their character.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer simple geographical questions when investigating different places and environments.</li> <li>▶ Describe similarities, differences and patterns e.g. comparing their lives with those of children in other places and environments.</li> </ul>	<p><b>Make a map of the school grounds/area around school</b></p> <ul style="list-style-type: none"> <li>▶ Develop simple fieldwork and observational skills when studying the geography of their school and local environment.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use a range of sources such as maps, globes, atlases and aerial photos to identify features and places as well as to follow routes.</li> <li>▶ Use simple compass directions as well as locational and directional language when describing features and routes.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Express views about the environment and can recognise how people sometimes affect the environment.</li> <li>▶ Create their own simple maps and symbols.</li> </ul>



	Locational and Place knowledge	Human and Physical Geography	Geographical Skills: Enquiry and Investigation	Geographical Skills: Fieldwork	Geographical Skills: Interpret a range of Sources of Geographical Information	Geographical Skills: Communication Geographical Information
Year 1	<ul style="list-style-type: none"> <li>▶ Name and locate               <ul style="list-style-type: none"> <li>- The countries of the British Isles</li> <li>- The capital cities of the British Isles</li> <li>- Aughton and Liverpool</li> <li>- The 7 continents.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe some places and features using basic geographical vocabulary.</li> <li>▶ Express their views on some features of their environment e.g. what they do or do not like.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer simple geographical questions.</li> <li>▶ Describe some similarities and differences when studying places and features e.g. hot and cold places of the world.</li> </ul>	<p><b>Link to Staycation topic and planning for a holiday.</b></p> <ul style="list-style-type: none"> <li>▶ Observe and describe daily weather patterns.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use a range of sources such as simple maps, globes, atlases and images.</li> <li>▶ Know that symbols mean something on maps.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use maps and other images to talk about everyday life e.g. where they live, journeys to school etc.</li> <li>▶ Draw, speak or write about simple geographical concepts such as what they can see where.</li> </ul>
EYFS	<p><b><u>ELG The Natural World</u></b></p> <ul style="list-style-type: none"> <li>▶ Know some similarities and differences between the natural world around them and contrasting environments. Drawing on their experiences and what has been read to them in class.</li> <li>▶ I know where I live, (Aughton)</li> <li>▶ I know some of the features of my immediate environment.</li> <li>▶ I know the name of my school and can say some of the things I pass on my way to school.</li> <li>▶ I know some of the people who work in my community and what they do.</li> <li>▶ I know the names of the four seasons.</li> <li>▶ I know the main features of the weather in each of the seasons.</li> <li>▶ I know that not all places in the world are the same.</li> <li>▶ I know some of the animals and plants that live and grow around me.</li> <li>▶ I know that London is the capital of England.</li> <li>▶ I know some animals from different parts of the world.</li> </ul>	<p><b><u>ELG The Natural World</u></b></p> <ul style="list-style-type: none"> <li>• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</li> <li>▶ I know what harvest is.</li> <li>▶ I know some of the festivals that are celebrated around the world.</li> <li>▶ I know that different foods are grown around the world.</li> </ul>	<p><b><u>ELG The Natural World</u></b></p> <ul style="list-style-type: none"> <li>▶ Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> </ul> <p><b><u>ELG People and Places</u></b></p> <ul style="list-style-type: none"> <li>▶ Describe their immediate environment using knowledge from observations, discussions, stories, non-fiction texts and maps.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>▶</li> </ul>	<p><b><u>ELG People and Places</u></b></p> <ul style="list-style-type: none"> <li>▶ Explain some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read to them in class.</li> <li>▶</li> </ul>

## History: End of Year Expectations

	Chronology	Events, People and Changes	Interpretation, Enquiry and Using Sources	Communication
Year 6	<ul style="list-style-type: none"> <li>Use dates and a wide range of historical terms when sequencing events and periods of time.</li> <li>Develop chronologically secure knowledge of the events and periods of time studied.</li> <li>Analyse links and contrasts within and across different periods of time including short-term and long-term time scales.</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate knowledge of <b>Ancient Greece</b> including Greek life and achievements and their influence on the western world.</li> <li>Demonstrate knowledge of the <b>Triangle of Trade and the impact on the city of Liverpool</b> (an aspect or theme in British history that extends their chronological knowledge beyond 1066.)</li> </ul>	<ul style="list-style-type: none"> <li>Regularly address and sometimes devise historically valid questions and hypotheses.</li> <li>Give some reasons for contrasting arguments and interpretations of the past.</li> <li>Describe the impact of historical events and changes.</li> <li>Recognise that some events, people and changes are judged as more significant than others.</li> </ul>	<ul style="list-style-type: none"> <li>Acknowledge contrasting evidence and opinions when discussing and debating historical issues.</li> <li>Use appropriate vocabulary when discussing, describing and explaining historical events.</li> <li>Construct informed responses to historical questions and hypotheses that involve thoughtful selection and organisation of relevant historical information including appropriate dates and terms.</li> <li>Choose the most appropriate way of communicating different historical findings.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>Use dates and appropriate historical terms to sequence events and periods of time.</li> <li>Identify where people, places and periods of time fit into a chronological framework.</li> <li>Describe links and contrasts within and across different periods of time including short-term and long-term time scales.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate knowledge of the <b>space race</b> (an aspect or theme in World History that extends their chronological knowledge beyond 1066)</li> <li>Describe key aspects of <b>early Islamic civilisation</b> (a non-European society)</li> </ul>	<ul style="list-style-type: none"> <li>Use a wider range of sources as a basis for research to answer questions and to test hypotheses.</li> <li>Recognise how our knowledge of the past is constructed from a range of sources.</li> <li>Evaluate sources and make simple inferences.</li> <li>Choose relevant sources of evidence to support particular lines of enquiry.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss and debate historical issues.</li> <li>Use appropriate vocabulary when discussing and describing historical events.</li> <li>Construct responses to historical questions and hypotheses that involve selection and organisation of relevant historical information including dates and terms.</li> <li>Choose relevant ways to communicate historical findings.</li> </ul>
Year 4	<ul style="list-style-type: none"> <li>Use dates and historical terms when ordering events and objects.</li> <li>Identify where people and events fit into a chronological framework.</li> <li>Explore links and contrasts within and across different periods of time.</li> </ul>	<ul style="list-style-type: none"> <li>Describe and compare some of the characteristic features and achievements of the earliest civilisations including where and when they appeared.</li> <li>Demonstrate more in-depth knowledge of <b>Ancient Egypt</b></li> <li>Describe aspects of the <b>Viking and Anglo- Saxon</b> struggle for the Kingdom of England in the time of Edward the Confessor</li> <li>Describe some aspects of Britain's settlement by <b>Anglo-Saxons and Scots</b>.</li> </ul>	<ul style="list-style-type: none"> <li>Use sources to address historically valid questions and hypotheses.</li> <li>Recognise how sources of evidence are used to make historical claims.</li> <li>Recognise why some events happened and what happened as a result.</li> <li>Identify historically significant people and events in different situations.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss significant aspects of, and connections between, different historical events.</li> <li>Select and organise relevant historical information to present in a range of ways.</li> <li>Use relevant and appropriate historical terms and vocabulary linked to chronology.</li> </ul>

	Chronology	Events, People and Changes	Interpretation, Enquiry and Using Sources	Communication
Year 3	<ul style="list-style-type: none"> <li>▶ Use some dates and historical terms when ordering events and objects.</li> <li>▶ Demonstrate awareness that the past can be divided into different periods of time.</li> <li>▶ Explore trends and changes over time.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe and give reasons for some of the changes in Britain from the <b>Stone Age to the Iron Age</b>.</li> <li>▶ Describe some aspects of the <b>Roman Empire</b> and recognise its impact on Britain.</li> <li>▶ Demonstrate knowledge of aspects of <b>history significant in their locality</b>.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use sources to address historically valid questions.</li> <li>▶ Recognise that our knowledge of the past is constructed from different sources of evidence.</li> <li>▶ Recognise that different versions of past events may exist.</li> <li>▶ Describe some of the ways the past can be represented.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Discuss some historical events, issues, connections and changes.</li> <li>▶ Select and organise historical information to present in a range of ways.</li> <li>▶ Use relevant historical terms and vocabulary linked to chronology.</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>▶ Order and sequence events and objects.</li> <li>▶ Recognise that their own lives are similar and / or different from the lives of people in the past.</li> <li>▶ Use common words and phrases concerned with the passing of time.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Demonstrate awareness of the lives of significant individuals in the past who have contributed to national and international achievements – focus on the <b>Victorians</b>.</li> <li>▶ Demonstrate knowledge of the <b>Victorian Age</b> (an aspect or theme in British history that extends their chronological knowledge beyond 1066.)</li> <li>▶ Develop awareness of significant historical events <b>First steam train – Rainhill to Liverpool</b>, people <b>Mary Seacole</b> and places <b>Liverpool Docks</b> in their own locality.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer simple questions about the past through observing and handling a range of sources.</li> <li>▶ Consider why things may change over time.</li> <li>▶ Recognise some basic reasons why people in the past acted as they did.</li> <li>▶ Choose parts of stories and other sources to show what they know about significant people and events.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Talk about what / who was significant in simple historical accounts.</li> <li>▶ Demonstrate simple historical concepts and events through role-play, drawing and writing.</li> <li>▶ Use a variety of simple historical terms and concepts.</li> </ul>
Year 1	<ul style="list-style-type: none"> <li>▶ Recognise the distinction between past and present.</li> <li>▶ Order and sequence some familiar events and objects.</li> <li>▶ Identify some similarities and differences between ways of life at different times.</li> <li>▶ Use some everyday terms about the passing of time such as 'a long time ago' and 'before'.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Retell some events from beyond their living memory which are significant nationally or globally – <b>Queen Elizabeth</b></li> <li>▶ Describe some changes within their living memory (including aspects of national life where appropriate) – <b>their family</b></li> </ul>	<ul style="list-style-type: none"> <li>▶ Make simple observations about different people, events, beliefs and communities.</li> <li>▶ Use sources to answer simple questions about the past.</li> <li>▶ Identify some of the basic ways in which the past can be represented.</li> <li>▶ Choose parts of stories and other sources to show what they know about the past.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Describe special or significant events.</li> <li>▶ Retell simple stories or events from the past.</li> <li>▶ Use simple historical terms.</li> </ul>

	Chronology	Events, People and Changes	Interpretation, Enquiry and Using Sources	Communication
EYFS	<p><b>Past and Present</b></p> <ul style="list-style-type: none"> <li>▶ Talk about the lives of people around them and their roles in society.</li> <li>▶ Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class.</li> <li>▶ I know that my Grandparents are my Mum and Dads parents.</li> <li>▶ I know that things have changed since my Mum and Dad were little.</li> <li>▶ I know that some stories have been around for a long time and that some are new.</li> </ul>	<p><b>People, Culture and Communities</b></p> <ul style="list-style-type: none"> <li>▶ Know some similarities and differences between families, different religious and cultural communities, cultures and traditions</li> <li>• I know about my family and where I was born.</li> <li>• I know that as I get older I can do different things.</li> <li>• I know some facts about people from the past – <b>Guy Fawkes, Florence Nightingale,</b></li> <li>• I know that families celebrate in different ways.</li> <li>• I know some celebrations / festivals and can say why they are celebrated (Christmas, Easter, Bonfire Night, Diwali, Chinese New Year).</li> </ul>	<p><b>Past and Present</b></p> <ul style="list-style-type: none"> <li>▶ Understand the past through settings, characters and events encountered in books read in class and storytelling.</li> <li>▶ I know which objects are from the past and which are modern. (toys / home artefacts)</li> </ul>	<p><b>People, Culture and Communities</b></p> <ul style="list-style-type: none"> <li>▶ Describe their immediate environment using knowledge from observations, discussions, stories, non-fiction texts and maps.</li> </ul>

## Spanish: End of Year Expectations

	Understand and respond to spoken language from a variety of resources (Listening)	Speak with increasing fluency, confidence and spontaneity continually improving the accuracy of their pronunciation and intonation (speaking)	Understand and respond to written language from a variety of authentic resources and develop an appreciation of a range of writing (reading)	Write at varying length for different purposes and audiences (writing)	Use a variety of grammatical structures
Year 6	<ul style="list-style-type: none"> <li>▶ Understand the main points and some detail from a short spoken passage e.g. someone talking about their friends, their home town, school, likes and dislikes etc.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Take part in longer conversations with increasing spontaneity and fluency.</li> <li>▶ Can express simple opinions and their pronunciation is generally confident and accurate.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand the main points and some detail including simple opinions of a longer written passage e.g. email, postcard, story, poem, recipe, advert etc.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Write a short text on a familiar topic using reference materials / support.</li> <li>▶ Write for a range of audiences and purpose.</li> <li>▶ Use formal and informal 'you'.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Use basic language structures accurately and with confidence e.g. apply correct verb endings to regular and some high frequency irregular verbs</li> <li>▶ Use prepositions and use some adverbial phrases to talk about the past or future in a simple way e.g. there was / there will be.</li> <li>▶ Understand the word tense and have an awareness that whether an event is ongoing or finished can be expressed differently in a FL compared to English.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>▶ Understand the main points from a spoken passage with some repetition e.g. items from a shopping list, simple opinions about school</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer simple questions and use a negative.</li> <li>▶ Take part in brief pre-prepared tasks e.g. a weather forecast, a short interview about school, interests / transactional role play with increasing confidence and fluency.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand the main points from a short written passage in clear printed script.</li> <li>▶ Are beginning to use a bilingual dictionary independently with some success.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Write two or three short sentences as a personal response accurately and can use reference materials / support.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand some basic aspects of language structure e.g. how to use personal pronouns, an awareness of verb patterns, word order, use of adjectival agreement with accuracy and the conjugation of some regular high frequency verbs.</li> </ul>
Year 4	<ul style="list-style-type: none"> <li>▶ Understand a range of familiar spoken phrases e.g. classroom instructions.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Ask and answer simple questions and give basic information (including a simple negative statement) based on topics covered in Y4.</li> <li>▶ Take part in a simple conversation and their pronunciation and confidence is improving.</li> <li>▶ Observe social conventions when speaking to someone i.e. formal and informal greetings</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand simple written phrases and match sounds to familiar written words as they become more aware of spelling patterns.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Write simple, familiar phrases accurately using a writing frame or scaffold.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand some basic aspects of language structure e.g. question words, how to use the negative, the position of the adjective in a sentence and an awareness of word order.</li> </ul>
Year 3	<ul style="list-style-type: none"> <li>▶ Identify the meanings of simple words and phrases they hear by matching to an object / picture / person etc.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand a few familiar spoken words and phrases and respond to simple questions e.g. What's your name? How are you? etc. and others depending on topics covered.</li> <li>▶ Say or repeat some familiar words and short simple phrases Year 3.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Identify the meanings of simple words and phrases they see by matching to an object / picture / person etc.</li> <li>▶ Recognise and read out a few familiar words and phrases and are starting to notice the sound spelling patterns.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Write or copy a few simple words or symbols accurately.</li> <li>▶ Be aware that symbols e.g. accents, umlauts exist and what they do</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand some basic aspects of language structure e.g. gender, definite and indefinite articles, singular and plural, nouns, adjectives.</li> </ul>

## Music: End of Year Expectation

	Performing	Listening and Reviewing	Creating and Composing	Understanding and Exploring	Inter-Related Dimensions: (Pitch / Duration / Dynamics / Tempo / Timbre / Texture / Structure)
Year 6	<ul style="list-style-type: none"> <li>▶ Independently sing songs, speak chants and rhymes in unison and two parts, with confident clear diction, control of pitch, a sense of phrase and musical expression.</li> <li>▶ Practise, rehearse and present a variety of solo and ensemble performances with confidence and awareness of the audience.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Know that time and place can influence the way music is created, performed and heard. Can make informed suggestions of suitable pieces of music for various occasions.</li> <li>▶ Develop a better understanding of the history of music. Begin to investigate the different eras of music.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Improvise with their voice or on a musical instrument both solo and ensemble to develop a wide range of rhythmic and melodic material when composing.</li> <li>▶ Can compose for different moods and use dynamic levels such as accents (<i>sudden loud or sudden quiet notes</i>).</li> </ul>	<ul style="list-style-type: none"> <li>▶ Explore and compare a variety of sounds in a piece of music, identifying the prominent melodies.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise a metre (the way in which beats are grouped) of three (such as in a Waltz) or four (most pop songs) and begin to recognise a change of metre within a piece.</li> <li>▶ Use Italian musical terms for gradually getting louder <i>crescendo</i> and gradually getting quieter <i>diminuendo</i>.</li> </ul>
Year 5	<ul style="list-style-type: none"> <li>▶ Independently sing songs, speak chants and rhymes in unison and two parts, with increasing clear diction, control of pitch, a sense of phrase and musical expression.</li> <li>▶ Perform a variety of repeated rhythmic patterns (ostinato) on percussion instruments.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to make suggestions of how the inter-related dimensions can be enhanced within musical structures to communicate different moods and effects (<i>e.g. how can the tempo be changed to create excitement?</i>)</li> <li>▶ Demonstrate a better understanding of the history of music. Begin to make appropriate suggestions of suitable pieces for music for various occasions.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Improvise and develop a wider range of rhythmic and melodic material when composing.</li> <li>▶ Choose, combine and organise a variety of the inter-related dimension of musical elements when composing with staff and other musical notations, such as graphic scores and / or using ICT.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to explore and compare a variety of contrasting sounds, recognising where the texture (thick (<i>many sounds</i>) and thin (<i>few</i>) layers of sound) varies in a song or piece of music.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise a musical phrase is like a musical sentence and can identify its duration as short or long.</li> <li>▶ Can identify a silence in a rhythmic pattern with a gesture such as raised hand.</li> <li>▶ Begin to use various Italian musical terms such as <i>crescendo</i>, <i>diminuendo</i>, <i>forte</i> and <i>piano</i>.</li> </ul>
Year 4	<ul style="list-style-type: none"> <li>▶ Sing solo songs demonstrating call and response form, speak chants and rhymes in unison with clear diction, control of pitch, a sense of phrase and musical expression.</li> <li>▶ Identify contrasting sections of a song, such as the verse and refrain (chorus).</li> </ul>	<ul style="list-style-type: none"> <li>▶ Review their own ideas and feelings about music using art, movement, dance, expressive language and musical vocabulary.</li> <li>▶ Understand that time and place can influence how and why music is created, performed and heard. Listen to and review music from a culture different to their own.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Improvise and develop rhythmic and melodic material when composing.</li> <li>▶ Experiment with gestures to show the overall contour of the pitch of a melody as it moves upwards, downwards or stays the same.</li> <li>▶ Combine a variety of musical elements when composing using staff and other musical notations.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Explore and compare sounds from the different instrumental families (percussion, woodwind, brass, string), name a variety of instruments.</li> <li>▶ Hear in a piece of music, refer to and compare the different sounds instruments make as their tone colour such as brassy, wooden and metallic.</li> <li>▶ Sequence various famous composers on a timeline.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Identify through gestures such as clapping or using percussion, the strong / first beat whilst singing.</li> <li>▶ Keep a steady beat and maintain rhythmic accuracy holding their own beat against another contrasting part.</li> <li>▶ Recognise pitch movement by step, leaps or as repeats.</li> </ul>

	Performing	Listening and Reviewing	Creating and Composing	Understanding and Exploring	Inter-Related Dimensions: (Pitch / Duration / Dynamics / Tempo / Timbre / Texture / Structure)
Year 3	<ul style="list-style-type: none"> <li>▶ Sing songs (also imitating melody patterns as an echo), speak chants and rhymes in unison, with clear diction, control of pitch and musical expression presenting performances with an awareness of the audience.</li> <li>▶ Play tuned and untuned instruments with increasing control and rhythmic accuracy, responding through gestures or movement to changes in the speed of the beat.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Listen with extended concentration and begin to express their opinion on a range of live and recorded music.</li> <li>▶ Explain their ideas and feelings about music using movement, dance and expressive language.</li> <li>▶ Begin to understand how music can be organised to communicate different moods and effects (e.g. listening to loud and fast music will create a different feeling to slow and quiet).</li> <li>▶ Determine upwards and downwards direction in pitch when listening and reviewing music.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to improvise and develop rhythmic and melodic material when composing, improving their own and others' work in relation to its intended effect.</li> <li>▶ Begin to create and combine a variety of the inter-related dimensions when composing (e.g. composing using both dynamics and tempo).</li> </ul>	<ul style="list-style-type: none"> <li>▶ Explore and compare sounds of groups of musical instruments, identifying the differences between them, e.g. strings, woodwind, orchestra, rock band etc.</li> <li>▶ Begin to explore the history of music, understanding that time and place can influence how and why music is created, performed and heard.</li> <li>▶ Explore music from a culture different to their own.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand that dynamics means volume and can recognise various different levels.</li> <li>▶ Understand that texture refers to the difference between thick (<i>many sounds</i>) and thin (<i>few</i>) layers of sounds.</li> <li>▶ Experience how music can be produced in different ways, including through ICT, and described through relevant established and invented notations.</li> </ul>
Year 2	<ul style="list-style-type: none"> <li>▶ Play tuned and untuned instruments.</li> <li>▶ Use their voices expressively to rehearse and perform with others, recognising a song with an accompaniment (<i>instrumental backing</i>) and one without.</li> <li>▶ Can start and finish together and can keep to a steady pulse.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Listen with concentration to music of a longer duration and recognise simple structures (for example, a beginning, middle and end).</li> <li>▶ Understand that music can be used for particular purposes and occasions.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Experiment with creating their own musical patterns and begin to identify one strand (<i>section</i>) of music or more.</li> <li>▶ Begin to improve their own and others' work.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise and match sounds with pictures of different instruments.</li> <li>▶ Explore a variety of vocal qualities through singing and speaking.</li> <li>▶ Begin to use onomatopoeia sound words to describe selected sounds and the ways in which they are produced.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Recognise the difference between a steady beat and no beat and identify sections within a piece of music which sound the same or different.</li> <li>▶ Understand that tempo means speed, and identify the tempo of music as fast, moderate, slow, getting faster or getting slower.</li> </ul>
Year 1	<ul style="list-style-type: none"> <li>▶ Rehearse and perform with others, using untuned instruments and voices to sing songs, speak chants and rhymes.</li> <li>▶ Perform with confidence cumulative songs (<i>songs with a simple melody that changes each verse</i>).</li> </ul>	<ul style="list-style-type: none"> <li>▶ Understand how sounds can be made in different ways and described using given and invented signs and symbols.</li> <li>▶ Listen to contrasting songs (such as lullabies and dance / up-tempo) with concentration, remembering specific instrumental names and sounds.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Experiment with creating and copying musical patterns.</li> <li>▶ Begin to explore the sounds of their voices and various musical instruments, recognising the differences between singing and speaking and wood, metal, skin (<i>drum</i>) and 'shaker' sounds.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Begin to explore their feelings about music using movement, dance and expressive language.</li> <li>▶ Develop an understanding that music has been composed throughout history.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Identify high and low pitches, sounds of long and short duration and recognise the difference between long and short sounds.</li> <li>▶ Identify silence and sounds that are loud and quiet and the differences between fast and slow speeds.</li> </ul>

	Performing	Listening and Reviewing	Creating and Composing	Understanding and Exploring	Inter-Related Dimensions: (Pitch / Duration / Dynamics / Tempo / Timbre / Texture / Structure)
<b>EYFS</b>	<b>Being Imaginative</b> <ul style="list-style-type: none"> <li>▶ Sing a range of well-known nursery rhymes and songs.</li> <li>▶ Perform songs, rhymes and poems and other stories with others and (when appropriate) try to move in time with the music</li> <li>▶ I know and can name some nursery rhymes.</li> <li>▶ I know 10 nursery rhymes by heart.</li> <li>▶ I know that performance is sharing music with others.</li> <li>▶ I know and join in with familiar worship songs.</li> <li>▶ I know how to play some percussion instruments correctly.</li> <li>▶ I know the names of some percussion instruments.</li> <li>▶ I know that instruments make different sounds.</li> </ul>		<ul style="list-style-type: none"> <li>▶ I can create my own music.</li> </ul>	<ul style="list-style-type: none"> <li>▶ I can talk about music I have heard.</li> </ul>	<ul style="list-style-type: none"> <li>▶ I know that pitch is how high or low a sound is.</li> <li>▶ I know how to clap the pulse (beat)</li> </ul>

### Music: Unit to teacher (mostly from Charanga)

<b>EYFS</b>	Me	My Stories	Everyone!	Our World	Big Bear Funk	Reflect, Rewind + Replay
<b>Year 1</b>	Hey You!	Rhythm in the Way We Walk + Banana Rap	In the Groove- untuned percussion	Round and Round- untuned percussion	Your Imagination	Reflect, Rewind + Replay
<b>Year 2</b>	Friendship Song	Rocking around the Christmas Tree	Glockenspiel Stage 1	Hands, Feet, Heart- Glockenspiel	I Wanna Play in a Band- Glockenspiel	Reflect, Rewind + Replay
<b>Year 3</b>	3 Little Birds	Little Drummer boy	Glockenspiel Stage 1	Mamma Mia- Glockenspiel	Happy- Glockenspiel	Reflect, Rewind + Replay
<b>Year 4</b>	Living on a Prayer	Jingle Bells on Glockenspiel	Recorder Course	Recorder Course	Lean On Me	Reflect, Rewind + Replay
<b>Year 5</b>	Teacher Planned Unit- Planets by Gustav Holtz 1873 <b>or</b> Music & Me	Classroom Jazz 1	Make You Feel My Love- Recorder	Blackbird- Recorder	Dancing in the Street- Recorder	Reflect, Rewind + Replay
<b>Year 6</b>	Teacher Planned Unit- Music in 1800s	Christmas Carols	Ukulele Course	Ukulele Course	You've Got a Friend- Ukulele	The Fresh Prince of Bel-Air- Ukulele



