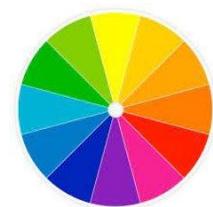




## Art and Design – Painting

Knowledge I know...	Skills I can...	Links back to I remember... [Y2]
<ul style="list-style-type: none"> <li>Georgia O'Keeffe was an artist.</li> <li>She was born in 1887 and was one of seven children.</li> <li>She began experimenting with painting close up views of flowers.</li> <li>She used oil paints in vibrant, bold colours.</li> <li>A colour wheel <b>is</b> a diagram used in the visual arts to represent the colours and their relationships to one another.</li> <li>Tertiary colours are the colours created when mixing a primary colour with a secondary colour.</li> <li>Different colours can have very different effects on our emotions.</li> <li>Complementary colours work in pairs and can be found directly opposite each other on the colour wheel, for example, purple and yellow.</li> <li>Few artists use only pure colours from around the colour wheel. Often artist will use tints, shades and tones when mixing colours.</li> </ul> <p>Monochromatic is where the artist uses tints, shades and tones of a single colour.</p>	<ul style="list-style-type: none"> <li>Confidently make a range of marks using a paintbrush including single strokes, zig zags, umbrella handles, polos and a string of pearls.</li> <li>Experiment with mixing media e.g. wax crayon under/over paint.</li> <li>Understand the relationship between colours and have confident in mixing and using them.</li> <li>Show my explorations in my sketchbook.</li> <li>Evaluate and analyse creative works of my peers.</li> <li>Explore the work of a range of artists, describing the differences and similarities between different practices and disciplines, and making links to my own work.</li> <li>Express my thoughts and feelings about a piece of art.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>Vary tone through blending using coloured pencils [Autumn].</li> <li>Mix a wider range of colours using pencil crayons [Autumn].</li> <li>Using complementary and harmonising colours [colour wheel]</li> <li>Using hard edged painting skills.</li> <li>Beginning to make a range of marks using a paintbrush including single strokes, zig zags, umbrella handles, polos and a string of pearls.</li> <li>Demonstrating my proficiency in water colour painting.</li> <li>Mixing and matching colour accurately.</li> <li>Georgia O'Keeffe was an artist.</li> <li>She painted Oriental Poppies in 1928.</li> </ul>

Vocabulary:	Images:
<p><b>Watercolour:</b> a type of paint which is used with water to give transparent colour</p> <p><b>Primary:</b> colours used to create all other colours and cannot be made (red, yellow, blue)</p> <p><b>Secondary:</b> a colour created by mixing two primary colours e.g. orange and purple</p> <p><b>Tertiary:</b> are colours that are created by mixing equal parts of primary colour and secondary colour</p> <p><b>Warm:</b> are colours that evoke a feeling of warmth, such as red, orange and yellow</p> <p><b>Cool:</b> are hues that are often associated with water, grass and the sky</p> <p><b>Complementary:</b> work in pairs and contrast with each other, they can be found directly opposite each other on the colour wheel, for example, purple and yellow</p> <p><b>Contrast:</b> is the use of different elements to create visual interest and draw the viewer's eye to certain areas</p> <p><b>Hue:</b> a hue is the pure form of a colour that hasn't been changed in any way. It is not the tint, tone or shade of a colour</p> <p><b>Tint:</b> making a colour lighter by adding white</p> <p><b>Shade:</b> making a colour darker by adding black</p> <p><b>Tone:</b> the lightness or darkness of a colour</p>	<p><b>Images:</b></p>   



## History – Rise and Fall of the Roman Empire

Knowledge I know...	Skills I can...	Links back to I remember...[Y2]
<ul style="list-style-type: none"> <li>Many Romans believed the myth that Rome was founded in 753 BCE.</li> <li>The myth of Romulus and Remus and why it was important to the Romans.</li> <li>Before the Roman Empire was founded, Rome was first ruled by kings and then Rome became a republic and run by a senate</li> <li>How Roman society was made up of plebeians and patricians</li> <li>The Punic wars were a series of wars between Rome and Carthage</li> <li>The Romans conquers Macedonia and the Greek city-states.</li> <li>Where the Roman Empire was located.</li> <li>When Roman's took over a territory it was called a province.</li> <li>Julias Ceaser was not an emperor but a dictator.</li> <li>Augustus was the first Emperor of Rome</li> <li>The Roman army was made up of centuries and legions</li> <li>The uniform of a Roman solider</li> <li>The tasks of a Roman solider</li> <li>Romans used more advance technology in battle.</li> <li>Where Pompeii was and Mount Vesuvius</li> <li>How the eruption of Mount Vesuvius destroyed Pompeii</li> <li>What evidence was left from Pompeii</li> </ul>	<ul style="list-style-type: none"> <li>Sequence some events or objects on a simple timeline without support providing a few dates and/or period labels and terms.</li> <li>To understand that a timeline To be divided into BC (Before Christ) and AD (Anno Domini).</li> <li>To work on a wider variety of interpretations such as history books, museum displays and historical fiction and non-fiction.</li> <li>To comment on a range of possible reasons for differences in several accounts (e.g. explain how and why there were different viewpoints about X).</li> <li>To explain historical situations, events, developments and individuals from more than 1 viewpoint.</li> <li>To draw together information from sources about the complexity of life in the past.</li> <li>Ask valid questions for enquiries and answer using several sources.</li> <li>To produce structured narratives and descriptions.</li> <li>To explain with confidence the significance of particular causes and effects for many of the key events and developments.</li> <li>Describe links between different features in past situations</li> <li>To explain why certain changes and developments were of particular significance within topics and across time periods.</li> <li>To explain why there were certain differences and similarities across time periods.</li> <li>Describe links between different features in past situations.</li> <li>Make valid statements about the main similarities, differences and changes occurring within topics.</li> <li>To explain independently why a historical topic, event or person was distinctive or significant (e.g. Julia Ceaser).</li> <li>To comment on the usefulness and reliability of a range of sources for particular enquiries.</li> </ul>	<ul style="list-style-type: none"> <li>What democracy is from Oliver Cromwell and Anicet Greece units</li> <li>Explain how past people/events influence life today</li> <li>That a timeline is divided into BC (Before Christ) and AD (Anno Domini)</li> <li>Select and organise key pieces of information</li> <li>Make connections between the historical periods previously studied (Ancient Egypt, Stone Age, Iron Age)</li> </ul>

### Vocabulary:

**Myth** - a traditional story, usually about heroes, heroines, gods and goddesses  
**Republic** - a country where the leaders are chosen or elected by the people living in the country  
**Senate** - a group of people who are voted for to make laws for people to live by.  
**Plebeians** – The poorer Romans who were not allowed to vote or become senators. The majority of Roman society.  
**Patricians** – The wealthiest Romans who were allowed to vote and become senators  
**Centurion** – A commander in the Roman army.  
**Legion** – 5,000-6,000 men  
**Province** - a place controlled by Rome that was outside of Italy  
**Dictator** - is a person with complete power and control over a country  
**Empire** – a large group of states and/or countries ruled over by one single monarch.  
**Pompeii** – A city in ancient Roman which was buried in a volcanic eruption in AD 79.  
**Vesuvius** – The volcano which erupted and buried Pompeii.

### Images:





## Computing – Programming (Repetition in Games – Scratch)

Knowledge I know...	Skills I can...	Links back to I remember... [KSI]
<ul style="list-style-type: none"> <li>That some programming languages enable more than one process to be run at once.</li> <li>How to read code and predict what the output will be once the code is run.</li> <li>In programming there are infinite loops and count-controlled loops.</li> <li>The difference between count-controlled and infinite loops and use this to modify existing animations and games using repetition.</li> <li>The parts of a game and can match them to a design.</li> </ul>	<ul style="list-style-type: none"> <li>List an everyday task as a set of instructions including repetition.</li> <li>Predict the outcome of a snippet of code.</li> <li>Modify a snippet of code to create a given outcome.</li> <li>Modify loops to produce a given outcome.</li> <li>Choose when to use a count-controlled and an infinite loop.</li> <li>Choose which action will be repeated for each object.</li> <li>Explain what the outcome of the repeated action should be.</li> <li>Evaluate the effectiveness of the repeated sequences used in my program.</li> <li>Identify which parts of a loop can be changed.</li> <li>Explain the effect of my changes.</li> <li>Re-use existing code snippets on new sprites.</li> <li>Evaluate the use of repetition in a project.</li> <li>Select key parts of a given project to use in my own design.</li> <li>Develop my own design explaining what my project will do.</li> <li>Refine the algorithm in my design.</li> <li>Build a program that follows my design.</li> <li>Evaluate the steps I followed when building my project.</li> </ul>	<ul style="list-style-type: none"> <li>That commands in Scratch are represented as blocks [Y3].</li> <li>Each sprite is controlled by the commands I choose [Y3].</li> <li>Sequences are made by joining blocks of code together [Y3].</li> <li>Sequence of commands can have an order [Y3].</li> <li>Code can be copied from one sprite to another [Y3].</li> <li>Projects should be tested to see if they perform as expected [Y3].</li> <li>Creating a program following a design [Y3].</li> <li>Starting a program in different ways [Y3].</li> <li>Creating a sequence of connected commands [Y3].</li> <li>Building a sequence of commands [Y3].</li> <li>Implementing my algorithm as code [Y3].</li> </ul>

### Vocabulary:

**Algorithm:** a precise set of ordered steps that can be followed by a human or a computer to achieve a task.

**Animate:** the movement sequence of a sprite.

**Backdrop:** the background to the stage of a scratch project.

**Block:** Segment of instruction or code.

**Bug:** a problem that needs to be found and fixed.

**Debugging:** finding and fixing a problem with a program.

**Duplicate:** a copy or clone of, e.g. duplicating an algorithm for a sprite to carry out the same task as another sprite.

**Evaluate:** the process of confirming that the algorithm (or section of) has worked well.

**Event:** the start of code or instruction. Event blocks trigger the instructional code to begin when pressed.

**Event block:** trigger the instructional code to begin when pressed.

**Forever:** continuous loop. A forever block loops the section of code.

**Program:** a set of ordered commands that can be run by a computer to complete a task.

**Code:** The commands a computer can run.

**Command:** a single instruction that can be used in a program to control a computer.

**Count-controlled loop:** a command that repeatedly runs a defined section of code a predefined number of times.

**Infinite-loop:** a command that repeatedly runs a defined section of code indefinitely.

**Loop:** a command that repeatedly runs a defined section of code.

**Modify:** to change.

**Motion:** a movement (of a sprite) e.g. move, go, glide.

**Order:** arrange in a methodical way.

**Refine:** to identify and improve.

**Repeat:** part of the program where one or more commands are run multiple times in a loop.

**Sequence:** the order in which commands are performed to achieve a task.

**Sprite:** the main characters of the project.

**Value:** the way to change a variable in a block.

### Images:





## Science – States of Matter

Knowledge I know...	Skills I can...	Links back to I remember... [KSI]
<ul style="list-style-type: none"> <li>There are three states of matter: solid, liquid and gas.</li> <li>A solid keeps its shape and has a fixed volume. Some solids are made up of small grains which can be poured into a heap.</li> <li>A liquid has a fixed volume but changes in shape to fit the container. A liquid can be poured and keeps a level, horizontal surface.</li> <li>A gas fills all available space; it has no fixed shape or volume.</li> <li>A liquid has a fixed volume but changes in shape to fit the container. A liquid can be poured and keeps a level, horizontal surface.</li> <li>Some liquids flow less easily and are slow to pour.</li> <li>Melting is a change of state from solid to liquid. Freezing is a change of state from liquid to solid.</li> <li>The temperature a liquid freezes at is called its freezing point. The freezing point of water is 0°C.</li> <li>Different substances have different freezing points.</li> <li>Boiling and evaporation are both a change of state from liquid to gas.</li> <li>Boiling happens at a specific temperature and bubbles of the gas can be seen inside the liquid. Water boils when it is heated to 100C.</li> <li>Evaporation happens at any temperature and only at the surface of the liquid. It happens more quickly if the temperature is higher, the liquid has a larger surface area or it is windy.</li> <li>The water cycle is an example of evaporation and condensation.</li> <li>Water at the surface of seas, lakes and rivers evaporates into water vapour, a gas.</li> <li>Water vapour rises and cools. It condenses back into liquid water droplets which form clouds.</li> <li>When the water droplets in a cloud get too heavy, they fall as rain, sleet or snow. This is known as precipitation.</li> <li>A gas fills all available space; it has no fixed shape or volume.</li> <li>Many gases are invisible.</li> <li>A gas has a mass, so its weight can be measured.</li> <li>A gas can be squashed or compressed into a smaller space.</li> </ul>	<ul style="list-style-type: none"> <li>asking relevant questions and using different types of scientific enquiries to answer them.</li> <li>setting up simple practical enquiries, comparative and fair tests.</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> <li>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</li> <li>identifying differences, similarities or changes related to simple scientific ideas and processes.</li> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<ul style="list-style-type: none"> <li>Solids: Have a fixed shape and size (e.g., rock, wood, toys). Particles are tightly packed and vibrate in place.</li> <li>Liquids: Take the shape of their container but have a fixed amount (volume) (e.g., water, juice, milk). Particles are close but can slide past each other.</li> <li>Gases: Spread out to fill their whole container (e.g., air, steam). Particles are far apart and move quickly.</li> <li>Heating: A solid can melt into a liquid (ice to water). A liquid can heat up and turn into a gas (water to steam/water vapour).</li> <li>Cooling: A gas can cool to become a liquid (steam to water) (condensation). A liquid can cool to become a solid (water to ice) (freezing/solidification).</li> </ul>
<p><b>Vocabulary:</b></p> <p><b>Solid:</b> has a defined shape and volume.</p> <p><b>Liquid:</b> has an almost-fixed volume, but no set shape.</p> <p><b>Gas:</b> has neither a definite volume or definite shape.</p> <p><b>Particles:</b> an extremely tiny piece of matter.</p> <p><b>Properties:</b> what a material is like and how it behaves (soft, stretchy).</p> <p><b>Variables:</b> factors that can change.</p> <p>Fair test: a way of finding out something by changing only one thing at a time.</p> <p>Method: how an experiment is carried out.</p> <p>Evaporate: when a liquid becomes a gas.</p> <p>Water vapour: water in its gas state.</p> <p>Condensation: a process by which a substance changes from a gas to a liquid.</p> <p>Compressed: the squashing of particles.</p> <p>Water Cycle: the journey water takes as it moves from the land to the sky and back again.</p> <p>Precipitation: Water falling back to the earth in the form of rain/snow/hail.</p> <p>Run off: water running over land back to lakes, rivers and the sea.</p>		<p><b>Images:</b></p>



## Geography – Volcanoes [Eruption of Mount Vesuvius in AD79]

### Knowledge I know...

- Volcanoes can form on land or at sea.
- The earth is made up for four layer – Crust, mantle, outer core and inner core.
- There are two common types of volcano: composite and shield
- Composite volcanoes have steep sides, they erupt violently but infrequently.
- Shield volcanoes are gentle sloped and have a large base. They erupt less frequently and less violently.
- Supervolcanoes are volcanoes which erupt with a huge, destructive force. They are extremely rare.
- Magma is liquid rock below the earth, lava is liquid rock on the earth's surface.
- When volcanoes erupt, they emit dangerous gases, dust and pieces of rock.
- When lava cools it forms igneous rock.
- The crater is the mouth of the volcano
- The main vent is the main passage where magma travels to the earth's surface.
- The magma chamber is the location underneath the main vent where magma is stored.
- Active volcanoes are volcanoes that have erupted recently and are likely to erupt again.
- Dormant volcanoes are currently inactive but might erupt again.
- Extinct volcanoes are unlikely ever to erupt again.
- One in twenty of the earth's population live close to an active volcano.
- Lava flows and dust clouds enrich the soil and make it more fertile
- The heat from volcanoes can be used to heat homes.
- Tourists visit volcanoes because they are exciting.
- People who live near volcanoes take special precautions
- Where Pompeii was and Mount Vesuvius
- How the eruption of Mount Vesuvius destroyed Pompeii

### Skills I can...

- Understand geographical similarities and differences through the study of human and physical geography.
- Describe and understand the key aspects of human geography near volcanoes including land use patterns and types of settlement.
- Describe and understand the relevant key aspects of physical geography, including volcanoes.
- Use maps, atlases, globes to locate countries and continents and describe features.
- To ask and respond to geographical questions about their environment and the countries studied including how and why using evidence to support their answers.
- To give their own views about locations and explain why.
- To compare their views with others.
- To use geographical vocabulary to describe local and/or small scale geographical features as well as those on a wider global level.
- To understand that geographers learn about the world by observing and collecting data and information.
- To begin to understand that some knowledge about the world can be revised as we collect new data and information.
- To analyse and communicate geographical information by constructing maps with keys, labelled diagrams, age-appropriate graphs and through writing, using appropriate geographical vocabulary.

### Links back to I remember..[KS1]

- Mountains and tectonic plates
- Countries in Europe
- Different used of land
- The difference between human and physical geography

### Vocabulary:

**Crust** – The think layer of solid rock that makes up the outer layer of the Earth

**Mantle** – The layer under the crust, the rock is hot liquid.

**Outer Core** – Hot liquid rock near the centre of Earth

**Inner core** – very centre of the Earth. Made of hot solid rock.

**Erupt** - To erupt is to suddenly burst or break open and emit something.

**Magma** - Magma is molten or semi-molten rock underground

**Lava** - Lava is molten rock that has broken through Earth's surface.

**Pompeii** – A city in ancient Roman which was buried in a volcanic eruption in AD 79.

**Vesuvius** – The volcano which erupted and buried Pompeii.

### Images:

