

	Art and design	Design and technology	Science	Geography	Computing	Music	PE
Programme of Study	<p>Learn about great artists, architects and designers in history.</p> <p>Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (for example, pencil, charcoal, paint, clay).</p> <p>Evaluate and analyse creative works using the language of art, craft and design.</p>	<p>Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.</p> <p>Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages).</p>	<p>Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</p>	<p>Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied.</p>	<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>RHE – Health education:</p> <p>Know how to be a discerning consumer of information online including understanding that information, including that from search engines, is ranked, selected and targeted.</p>	<p>Improvise and compose music for a range of purposes using the interrelated dimensions of music.</p>	<p>Perform dances using a range of movement patterns.</p>

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Year 5 Learning Intention (skills)	<p>Investigate and develop artwork using the characteristics of an artistic movement.</p> <p>Mix and use tints and shades of colours using a range of different materials, including paint.</p> <p>Describe and discuss how different artists and cultures have used a range of visual elements in their work.</p> <p>Explore and create expression in portraiture.</p> <p>Compare and comment on the ideas, methods and approaches in their own and others' work.</p>	<p>Select and combine materials with precision.</p> <p>Use mechanical systems in their products, such as pneumatics and hydraulics.</p>	<p>Plan and carry out a range of enquiries, including writing methods, identifying variables and making predictions based on prior knowledge and understanding.</p>	<p>Analyse and compare a place, or places, using aerial photographs, atlases and maps.</p>	<p>Create, select and combine a range of texts, images, sound clips and videos for given purposes.</p> <p>Discern where web content might originate from and recognise that this gives clues to its authenticity, reliability and security.</p>	<p>Create a composition that combines layers of sound and vocalisations and shows an awareness of pitch, tempo, rhythm, melody and dynamics.</p>	<p>Improvise and move with precision, control and fluency in response to a range of stimuli.</p>

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Year 5 Knowledge	<p>Artistic movements include Expressionism, Realism, Pop Art, Renaissance and Abstract.</p> <p>A tint is a colour mixed with white, which increases lightness, and a shade is a colour mixed with black, which increases darkness.</p> <p>Visual elements include line, light, shape, colour, pattern, tone, space and form.</p> <p>A portrait is a picture of a person that can be created through drawing, painting and photography. Artistic movements or artists that communicate feelings through portraiture include the Expressionists.</p> <p>Ideas are the new thoughts and messages that artists have put into their work. Methods and approaches are the techniques used to create art.</p>	<p>Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques.</p> <p>Pneumatic systems use energy that is stored in compressed air to do work, such as inflating a balloon to open a model monster's mouth. These effects can be achieved using syringes and plastic tubing. Hydraulic mechanisms work in a similar way, but instead of air, the system is filled with a liquid, usually water. It is important that the system is air or watertight.</p>	<p>A method is a set of clear instructions for how to carry out a scientific investigation. A prediction is a statement about what might happen in an investigation based on some prior knowledge or understanding.</p>	<p>Aerial photography is used in cartography, land-use planning and environmental studies. It can be used alongside maps to find out detailed information about a place, or places.</p>	<p>Creating, selecting and combining a range of texts, images, sound clips and videos for given purposes could include creating a web page, slide show presentation, short film or an animation.</p> <p>Some websites have more reliable content than others and content should be verified with another independent source.</p>	<p>Effective compositions involve using a variety of instruments, different pitches, repeated and contrasting rhythms, melodies and harmonies and dynamics.</p>	<p>Improvisation is a creative and unplanned movement or set of movements that are performed in response to a stimulus. Precision means the movement is accurate and carefully performed. Control involves balance and awareness of the space. Fluency means movements flow smoothly.</p>