

	EYFS	Key Stage 1	Key Stage 2
Understanding contexts, users and purposes	 Co-construct, invent, adapt and recount narratives and stories with peers and their teacher. Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; offering their own ideas, using recently introduced vocabulary; Begin to show accuracy and care when drawing. 	 Across KS1 pupils should: work confidently within a range of contexts, such as imaginary, story-based, home, school, gardens, playgrounds, local community, industry and the wider environment state what products they are designing and making say whether their products are for themselves or other users describe what their products are for say how their products will work say how they will make their products suitable for their intended users use simple design criteria to help develop their ideas 	 Across KS2 pupils should: work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment describe the purpose of their products indicate the design features of their products that will appeal to intended users explain how particular parts of their products work In early KS2 pupils should also: gather information about the needs and wants of particular individuals and groups develop their own design criteria and use these to inform their ideas In late KS2 pupils should also: carry out research, using surveys, interviews, questionnaires and web-based resources identify the needs, wants, preferences and values of particular individuals and groups develop a simple design specification to guide their thinking
Generating, developing, modelling and communicating ideas	 Co-construct, invent, adapt and recount narratives and stories with peers and their teacher. Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; offering their own ideas, using recently introduced vocabulary; Begin to show accuracy and care when drawing. 	 Across KS1 pupils should: generate ideas by drawing on their own experiences use knowledge of existing products to help come up with ideas develop and communicate ideas by talking and drawing model ideas by exploring materials, components and construction kits and by making templates and mockups use information and 	 Across KS2 pupils should: share and clarify ideas through discussion model their ideas using prototypes and pattern pieces use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate their ideas use computer-aided design to develop and communicate their ideas In early KS2 pupils should also: generate realistic ideas, focusing on the needs of the user make design decisions that take account of the availability of resources In late KS2 pupils should also:



Making	EYFS	communication technology, where appropriate, to develop and communicate their ideas Key Stage 1	 generate innovative ideas, drawing on research make design decisions, taking account of constraints such as time, resources and cost Key Stage 2
Planning	 Co-construct, invent, adapt and recount narratives and stories with peers and their teacher. Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they have used. offering their own ideas, using recently introduced vocabulary; Begin to show accuracy and care when drawing. 	 Across KS1 pupils should: plan by suggesting what to do next select from a range of tools and equipment, explaining their choices select from a range of materials and components according to their characteristics 	 Across KS2 pupils should: select tools and equipment suitable for the task explain their choice of tools and equipment in relation to the skills and techniques they will be using select materials and components suitable for the task explain their choice of materials and components according to functional properties and aesthetic qualities In early KS2 pupils should also: order the main stages of making In late KS2 pupils should also: produce appropriate lists of tools, equipment and materials that they need formulate step-by-step plans as a guide to making
Practical skills and techniques	 Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; offering their own ideas, using recently introduced vocabulary; Use a range of small tools, including scissors, paint brushes. Begin to show accuracy and care when drawing. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; 	Across KS1 pupils should: • follow procedures for safety and hygiene • use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components • measure, mark out, cut and shape materials and components • assemble, join and combine materials and components • use finishing techniques, including those from art and design	 Across KS2 pupils should: follow procedures for safety and hygiene use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components In early KS2 pupils should also: measure, mark out, cut and shape materials and components with some accuracy assemble, join and combine materials and components with some accuracy apply a range of finishing techniques, including those from art and design, with some accuracy In late KS2 pupils should also:



	•Share their creations, explaining the process they have used;		 accurately measure, mark out, cut and shape materials and components accurately assemble, join and combine materials and components accurately apply a range of finishing techniques, including those from art and design use techniques that involve a number of steps demonstrate resourcefulness when tackling practical problems
Evaluating	EYFS	Key Stage 1	Key Stage 2
Own ideas and products	 Co-construct, invent, adapt and recount narratives and stories with peers and their teacher. Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; offering their own ideas, using recently introduced vocabulary; Begin to show accuracy and care when drawing. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they have used; 	Across KS1 pupils should: • talk about their design ideas and what they are making • make simple judgements about their products and ideas against design criteria • suggest how their products could be improved	 Across KS2 pupils should: identify the strengths and areas for development in their ideas and products consider the views of others, including intended users, to improve their work In early KS2 pupils should also: refer to their design criteria as they design and make use their design criteria to evaluate their completed products In late KS2 pupils should also: critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make evaluate their ideas and products against their original design specification
Existing products	Co-construct, invent, adapt and recount narratives and stories	Across KS1 pupils should explore:	Across KS2 pupils should investigate and analyse:how well products have been designed
	with peers and their teacher.	what products are	how well products have been made
	Draw and paint using a range of	who products are for	why materials have been chosen
	materials, tools and techniques,	 what products are for 	 what methods of construction have been used



	 experimenting with colour, design, texture, form and function; offering their own ideas, using recently introduced vocabulary; Begin to show accuracy and care when drawing. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they have used; 	 how products work how products are used where products might be used what materials products are made from what they like and dislike about products 	 how well products work how well products achieve their purposes how well products meet user needs and wants In early KS2 pupils should also investigate and analyse: who designed and made the products where products were designed and made when products were designed and made whether products can be recycled or reused In late KS2 pupils should also investigate and analyse: how much products cost to make how innovative products are what impact products have beyond their intended purpose
Key events and individuals	•Co-construct, invent, adapt and recount narratives and stories with peers and their teacher.	•Whilst not a requirement in KS1, teachers will introduce topic related information about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products	Across KS2 pupils should know: • about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products
Technical Knowledge	EYFS	Key Stage 1	Key Stage 2
Making products work	 Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function; Use a range of small tools, including scissors, paint brushes. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; 	Across KS1 pupils should know: • about the simple working characteristics of materials and components • about the movement of simple mechanisms such as levers, sliders, wheels and axles • how freestanding structures can be made stronger, stiffer and more stable • that a 3-D textiles product can be assembled from two identical fabric shapes	 Across KS2 pupils should know: how to use learning from science to help design and make products that work how to use learning from mathematics to help design and make products that work that materials have both functional properties and aesthetic qualities that materials can be combined and mixed to create more useful characteristics that mechanical and electrical systems have an input, process and output the correct technical vocabulary for the projects they are undertaking



		 that food ingredients should be combined according to their sensory characteristics the correct technical vocabulary for the projects they are undertaking 	 In early KS2 pupils should also know: how mechanical systems such as levers and linkages or pneumatic systems create movement how simple electrical circuits and components can be used to create functional products how to program a computer to control their products how to make strong, stiff shell structures that a single fabric shape can be used to make a 3D textiles product that food ingredients can be fresh, pre-cooked and processed In late KS2 pupils should also know: how mechanical systems such as cams or pulleys or gears create movement how more complex electrical circuits and components can be used to create functional products how to program a computer to monitor changes in the environment and control their products how to reinforce and strengthen a 3D framework that a 3D textiles product can be made from a combination of fabric shapes that a recipe can be adapted by adding or substituting one or more ingredients
Cooking and Nutrition	EYFS	Key Stage 1	Key Stage 2
Where food comes from	 Co-construct, invent, adapt and recount narratives and stories with peers and their teacher. offering their own ideas, using recently introduced vocabulary; 	Across KS1 pupils should know: • that all food comes from plants or animals • that food has to be farmed, grown elsewhere (e.g. home) or caught	Across KS2 pupils should know: • that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world In late KS2 pupils should also know: • that seasons may affect the food available



			 how food is processed into ingredients that can be eaten or used in cooking
Food preparation, cooking and nutrition	 Children know the importance for good health of a healthy diet, and talk about ways to keep healthy and safe. Use a range of small tools, including scissors, paint brushes. 	Across KS1 pupils should know: • how to name and sort foods into the five groups in The eatwell plate • that everyone should eat at least five portions of fruit and vegetables every day • how to prepare simple dishes safely and hygienically, without using a heat source • how to use techniques such as cutting, peeling and grating	 Across KS2 pupils should know: how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking In early KS2 pupils should also know: that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate that to be active and healthy, food and drink are needed to provide energy for the body In late KS2 pupils should also know: that recipes can be adapted to change the appearance, taste, texture and aroma that different food and drink contain different substances – nutrients, water and fibre – that are needed for health

Objectives taken from Early Adopter EYFS Curriculum 2021