

2019

# Curriculum Skills and Progression Map Design Technology



Nebula  
where stars are born

The Nebula Federation

White Woman Lane School

**DESIGN TECHNOLOGY: AGE RELATED STATUTORY COVERAGE****KEY STAGE TWO LEARNING****Design**

- Use research and develop criteria to inform the design of innovative, functional, appealing products that are fit for purpose
- Generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

**Make**

- Select from and use a wider range of tools and equipment to perform practical tasks accurately
- Select from and use a wider range of materials and components

**Evaluate**

- Investigate and analyse a range of existing products
- Evaluate ideas and products against own design criteria and consider the views of others
- Understand how key events and individuals have helped shape the world

**Technical knowledge**

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- Understand and use mechanical systems in their products
- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- Apply understanding of computing to program, monitor and control products.
- Understand and apply the principles of a healthy and varied diet
- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Skills Map – Design Technology		
Year 3 – Design Technology		
Developing, Planning and Communicating Ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
<ul style="list-style-type: none"> <li>• Can they plan their design, using accurate diagrams and labels?</li> <li>• Can they plan the equipment/ tools needed and give reasons why?</li> <li>• Can they start to order the main stages of making their product?</li> <li>• Can they identify a design criteria and establish a purpose/ audience for their product?</li> <li>• How realistic are their plans? e.g. tools, equipment, materials, components?</li> </ul> <p><b>DESIGN AND DEVELOP</b></p> <ul style="list-style-type: none"> <li>• Use others to help generate their ideas</li> <li>• Use what they know about the properties of materials</li> <li>• Plan their work to include a range of joins</li> <li>• Ensure that plans are realistic and appropriate for the aim</li> <li>• Show the order of working in plans</li> <li>• Use models, pictures and words in designs</li> <li>• Make increasing use of ICT to plan ideas</li> <li>• Recognise that designs must meet a range of needs</li> <li>• Say why something will be useful</li> </ul>	<ul style="list-style-type: none"> <li>• Can they use equipment and tools accurately and safely?</li> <li>• Can they select the most appropriate materials, tools and techniques to use?</li> <li>• Can they manipulate materials using a range of tools and equipment?</li> <li>• Can they measure, cut and assemble with increasing accuracy?</li> </ul> <p><b>MAKING</b></p> <ul style="list-style-type: none"> <li>• Measure and cut out using centimetres and weigh in grams</li> <li>• Choose tools and equipment which are appropriate for the job</li> <li>• Prepare for work by assembling components together before joining</li> <li>• Use scoring and folding for precision</li> <li>• Make holes using a punch and drill</li> <li>• Work out how to make models stronger</li> <li>• Alter and adapt materials to make them stronger</li> <li>• Combine a number of components together in different ways</li> <li>• Make the finished product neat and tidy</li> </ul>	<ul style="list-style-type: none"> <li>• Start to think about their ideas as they make progress and be willing to make changes if this helps them to improve their work?</li> <li>• Can they assess how well their product works in relation to the purpose?</li> <li>• Can they explain how they could change their design to make it better?</li> </ul> <p><b>PRODUCT AND EVALUATION</b></p> <ul style="list-style-type: none"> <li>• Be clear about their ideas when asked</li> <li>• Can alter and adapt original plans following discussion and evaluation</li> <li>• Recognise what has gone well, but suggest further improvements for the finished article</li> <li>• Suggest which elements they would do better in the future</li> <li>• Identify where evaluation has led to improvements</li> <li>• Understand safe food storage</li> </ul>

<ul style="list-style-type: none"> <li>Apply what they know about mechanisms to create movement when planning and designing</li> <li>Investigate a range of products to see how they work</li> </ul>	<ul style="list-style-type: none"> <li>Begin to select their own ingredients when cooking or baking</li> <li>Make good presentation of food</li> </ul>	
<b>Year 3 – Choose from: Areas of Study</b>		
<p><b>Textiles</b></p> <ul style="list-style-type: none"> <li>Can they join textiles of different types in a range of ways?</li> <li>Can they choose textiles both for their appearance and also qualities?</li> <li>Can they begin to use a range of simple stitches?</li> </ul>	<p><b>Mechanisms</b></p> <ul style="list-style-type: none"> <li>Can they make a product which uses mechanical components?</li> <li>Can they use a range of components? e.g. levers, linkages and pneumatic systems</li> </ul>	<p><b>Construction</b></p> <ul style="list-style-type: none"> <li>Can they join materials effectively to build a product?</li> <li>Can they use a range of techniques to shape and mould materials?</li> <li>Can they use finishing techniques? e.g. sanding, varnishing, glazing etc.</li> </ul>
<p><b>Key Content</b> <u>PROJECTS – Design and make a folder/wallet</u></p>	<p><b>Key Content</b> <u>PROJECTS – Moving Monsters</u></p> <p><b>STEM –</b> <b>Compass/Escape/Trap/Trapped –</b> <b>MTa STEM KITS</b></p>	<p><b>Key Content</b> <u>PROJECTS – Design and make a photo frame</u></p> <p><b>STEM –</b> <b>Compass/Escape/Trap/Trapped –</b> <b>MTa STEM KITS</b></p>
<p><b>Vocabulary</b> Sew, stitch, fabric, fix, join, ribbon, thread string, needle, weave, plan, evaluate</p>	<p>Air, pneumatic systems, joining, fixing components, materials, construct, control, movement, plan , evaluate, scissors, mark up, improve</p>	<p>User, choice, decoration, quality, component parts, purpose, bench hook, saw, glue, glue gun planning, order, rolling, layering, cutting, finish, board, evaluate stable, free-standing, stiffen, frame, sturdy, reinforce, quality, distance, near, close, wide, narrow, deep, shallow, thick, thin.</p>

<p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Materials and their properties                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>	<p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Forces                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>	<p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Forces                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>
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Skills Map – Design Technology		
Year 4 – Design Technology		
Developing, Planning and Communicating Ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
<ul style="list-style-type: none"> <li>• Can they create a final design for their product based on initial ideas and revisions, based on existing ideas?</li> <li>• Can they create a detailed plan considering their target audience, design criteria and intended purpose?</li> </ul> <p><b>DESIGN AND DEVELOP</b></p> <ul style="list-style-type: none"> <li>• Collect and use information to generate ideas</li> <li>• Consider the way the product will be used</li> </ul>	<ul style="list-style-type: none"> <li>• Can they use equipment and tools with increased accuracy and safety?</li> <li>• Can they select the most effective materials, tools and techniques to use?</li> <li>• Can they manipulate materials effectively using a range of tools and equipment?</li> <li>• Can they measure, cut and assemble accurately?</li> </ul> <p><b>MAKING</b></p> <ul style="list-style-type: none"> <li>• Increasingly model their ideas before making</li> <li>• Measure accurately to centimetres and grams</li> </ul>	<ul style="list-style-type: none"> <li>• Can they think about their ideas as they progress and make changes to improve their work?</li> <li>• Can they assess how well their product works in relation to the design criteria and the intended purpose?</li> <li>• Can they explain how they could improve their design and how their improvement would affect the original outcome?</li> </ul> <p><b>PRODUCT AND EVALUATION</b></p> <ul style="list-style-type: none"> <li>• Talk about what they like and dislike, giving reasons</li> <li>• Develop their designs through their own reflection and the evaluation of others</li> </ul>

<ul style="list-style-type: none"> <li>• Understand designs must meet a range of criteria and constraints</li> <li>• Take users' views into account</li> <li>• Understand how some properties can be used – e.g. waterproof</li> <li>• Think ahead about the order of their work</li> <li>• Add electricity to create motion or make light</li> <li>• Produce step by step plans</li> <li>• Make ongoing sketches and annotations</li> <li>• Collect and use information to generate ideas</li> <li>• Consider the way the product will be used</li> <li>• Understand designs must meet a range of criteria and constraints</li> <li>• Take users' views into account</li> <li>• Understand how some properties can be used – e.g. waterproof</li> <li>• Think ahead about the order of their work</li> <li>• Add electricity to create motion or make light</li> <li>• Produce step by step plans</li> <li>• Make ongoing sketches and annotations</li> </ul>	<ul style="list-style-type: none"> <li>• Combine materials for strength and to improve how the product looks</li> <li>• Use permanent and temporary fastenings to join</li> <li>• Join with a greater range of techniques – e.g. staples</li> <li>• Strengthen joins and corners in a variety of ways</li> <li>• Understand how wheels, axles, turning mechanisms, hinges and levers all work together</li> </ul>	<ul style="list-style-type: none"> <li>• Carry out tests before making improvements</li> <li>• Evaluate food by taste, texture, flavour etc.</li> </ul>
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Year 4 – Choose from: Areas of Study		
<p><b>Textiles</b></p> <ul style="list-style-type: none"> <li>• Can they consider which materials are fit for purpose and join them appropriately?</li> <li>• Can they devise a template or pattern for their product?</li> </ul>	<p><b>Electrical and Mechanical Components</b></p> <ul style="list-style-type: none"> <li>• Can they use a simple circuit and add components to it?</li> <li>• Can they make a product which uses both electrical and mechanical components?</li> </ul>	<p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Can they measure accurately to build effective structures?</li> <li>• Can they use a range of techniques to shape and mould?</li> <li>• Can they experiment with a range of techniques to increase stability in a structure?</li> <li>• Can they use finishing techniques, showing an awareness of audience?</li> <li>• e.g. sanding, varnishing, glazing etc.</li> </ul>
<p><b>KEY CONTENT</b>                      LTa STEM KITS - cobwebbing                      Fashion club                      Food and nutrition  <u>Cereal Bars</u> and Packaging.</p>	<p><b>KEY CONTENT</b>                      (SCIENCE LINK – ALARMS y4 - IN SCIENCE LESSONS                      Using a shoe box and simple circuit create a model house with an alarm.)</p>	<p><b>KEY CONTENT</b>                      LTa STEM KITS - cobwebbing  <u>POP UP BOOKS</u>                      Design and make a pop up book for a KS1 child.</p>
<p><b>VOCABULARY</b>                      Cereal, farm, produce, make, recipe, oats, honey, butter, ingredients, etc</p> <p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – States of matter / solids/liquids/gases                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>	<p>Shoe box, circuit, components, buzzer, wires, batteries, alarm, open, shut, on, off, etc</p> <p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Electricity / conductors/Insulators                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>	<p>Book, lever, slider, pop up, flap, glue, cut, stick, page, evaluate, paper, card etc</p> <p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Forces                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>

<b>Skills Map – Design Technology</b>		
<b>Year 5 – Design Technology</b>		
<b>Developing, Planning and Communicating Ideas</b>	<b>Working with tools, equipment, materials and components to make quality products</b>	<b>Evaluating processes and products</b>
<ul style="list-style-type: none"> <li>• Can they survey their target audience and use this to generate ideas?</li> <li>• Can they take a user’s view into account when designing?</li> <li>• Can they produce a detailed step-by-step plan for their design method?</li> <li>• Can they suggest some alternative designs and compare the benefits and drawbacks to inform the design process and outcome?</li> </ul> <p><b>DESIGN AND DEVELOP</b></p> <ul style="list-style-type: none"> <li>• Make more complex designs to include belts and pulleys, and a combination of other mechanisms</li> <li>• Plan the order of work by thinking ahead</li> <li>• Use sketches to show other ways of doing things – and then make choices</li> <li>• Meet an identified need – e.g. a meal for an older person – by selecting ingredients or materials</li> <li>• Use various sources of information and draw on them in design</li> </ul>	<ul style="list-style-type: none"> <li>• Can they choose appropriate tools and materials to ensure that the final product will appeal to the audience?</li> <li>• Can they use a range of tools and equipment with good accuracy and effectiveness, within established safety parameters?</li> </ul> <p><b>MAKING</b></p> <ul style="list-style-type: none"> <li>• Carry out tests to see if their design works</li> <li>• Make improvements from design suggestions</li> <li>• Work in a safe and hygienic way</li> <li>• Measure and cut precisely to millimetres</li> <li>• Make stable and strong joins to stand the test of time</li> <li>• Use proportions when cooking, by doubling and halving recipes</li> </ul>	<ul style="list-style-type: none"> <li>• Can they continuously check that their design is effective and fit for purpose?</li> <li>• Can they assess how well their product works in relation to the design criteria and the intended purpose and suggest improvements?</li> <li>• Can they evaluate appearance and function against the original design criteria?</li> </ul> <p><b>PRODUCT AND EVALUATION</b></p> <ul style="list-style-type: none"> <li>• Identify what is working well and what might be improved – and make choices from several alternatives</li> <li>• Refine the quality of the finished product, including making annotations on the design</li> <li>• Clarify ideas through drawing and modelling</li> <li>• Increasingly use testing to improve models and finished products</li> </ul>



Year 5 – Choose from: Areas of Study		
<p><b>Textiles</b></p> <ul style="list-style-type: none"> <li>• Can they consider the audience when choosing textiles?</li> <li>• Can they make up a prototype first?</li> <li>• Can they use a range of joining techniques?</li> <li>• Can they devise a template or pattern for their product?</li> </ul>	<p><b>Mechanical Components</b></p> <ul style="list-style-type: none"> <li>• Can they refine their product after testing it?</li> </ul>	<p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Are their measurements accurate enough to ensure precision?</li> <li>• Can they demonstrate that their product is strong and fit for purpose?</li> <li>• Are they motivated to refine and further improve their product?</li> </ul>
<p><b>KEY CONTENT</b> <b><u>BAG FOR LIFE PROJECT</u></b></p>	<p><b>KEY CONTENT</b> <b><u>GLIDERS – STEM</u></b> <b><u>BREAD</u></b></p>	<p><b>KEY CONTENT</b> <b><u>CERAMIC DESIGN – CONTAINERS</u></b></p>
<p><b>VOCABULARY</b> Sew, stitch, fabric, fix, join, ribbon, thread string, needle, weave, plan, evaluate</p> <p><b>Cross curricular links</b> Literacy – writing Numeracy – Measuring/weighing/statistics Science – Working Scientifically – Planning and Prep. Properties and changes of materials RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics ICT – Planning and research Art - Decorative features / Aesthetics PSHE - Decorative features / Aesthetics</p>	<p>Cereal, farm, produce, make, recipe, bread, bread types, honey, butter, flour, yeast, ingredients, etc</p> <p><b>Cross curricular links</b> Literacy – writing Numeracy – Measuring/weighing/statistics Science – Forces RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics ICT – Planning and research Art - Decorative features / Aesthetics PSHE - Decorative features / Aesthetics</p>	<p>Design, make, craft, plan, evaluate, clay, tools, dry, moist, kiln,</p> <p><b>Cross curricular links</b> Literacy – writing Numeracy – Measuring/weighing/statistics Science – properties and changes of materials RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics ICT – Planning and research Art - Decorative features / Aesthetics PSHE - Decorative features / Aesthetics</p>

<b>Skills Map – Design Technology</b>		
<b>Year 6 – Design Technology</b>		
<b>Developing, Planning and Communicating Ideas</b>	<b>Working with tools, equipment, materials and components to make quality products</b>	<b>Evaluating processes and products</b>
<ul style="list-style-type: none"> <li>Can they use a range of information to inform their design?</li> <li>Can they use market research to inform plans?</li> <li>Can they work within constraints?</li> <li>Can they justify their plan to someone else?</li> <li>Can they consider culture and society in their designs?</li> <li>Have they considered the use of the product when selecting materials?</li> <li>Have they thought about how their product could be marketed through packaging and advertising?</li> </ul> <p><b>DESIGN AND DEVELOP</b></p> <ul style="list-style-type: none"> <li>Keep cost constraints in mind when selecting materials in design</li> <li>Use their knowledge of –e.g.- science and art when designing</li> <li>Be aware of commercial aspects and incorporate these into their designs</li> <li>Design including hydraulics and pneumatics when where appropriate</li> <li>Draw scaled diagrams with increasing use of ratio Calculate the amount of materials needed use this to estimate cost</li> </ul>	<ul style="list-style-type: none"> <li>Can they choose appropriate tools and materials to ensure that the final product will appeal to the audience?</li> <li>Can they use a range of tools and equipment with good accuracy and effectiveness, within established safety parameters?</li> </ul> <p><b>MAKING</b></p> <ul style="list-style-type: none"> <li>Measure and cut out in precise detail, and make sure that finished products are carefully finished</li> <li>Make separate elements of a model before combining into the finished article</li> <li>Understand how an article might be mass produced</li> <li>Produce a simple instruction manual or handbook for their product</li> </ul>	<ul style="list-style-type: none"> <li>How well do they test and evaluate their final product?</li> <li>Is it fit for purpose?</li> <li>What would improve it?</li> <li>Would different resources have improved their product?</li> <li>Would they need more or different information to make it even better?</li> <li>Does their product meet all design criteria?</li> </ul> <p><b>PRODUCT AND EVALUATION</b></p> <ul style="list-style-type: none"> <li>Research products using the internet</li> <li>Test and evaluate commercial products, understanding how this information supports their own designs</li> <li>Evaluate a range of different sources of information such as advertising and handbooks</li> </ul>

Year 6 – Choose from: Areas of Study		
	<p><b>Electrical and Mechanical Components</b></p> <ul style="list-style-type: none"> <li>• Can they use different kinds of circuits in their product to improve it?</li> <li>• Can they incorporate a switch into their product?</li> <li>• Can they refine their product after testing it?</li> <li>• Can they incorporate hydraulics and pneumatics?</li> </ul>	<p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Are their measurements accurate enough to ensure precision?</li> <li>• Can they demonstrate that their product is strong and fit for purpose?</li> <li>• Are they motivated to refine and further improve their product?</li> </ul>
<b>KEY CONTENT</b>	<p><b>KEY CONTENT</b>  <b>STEM – OZBOTS / LEGO KITS – CONTROL</b>  <b>LTa kits – Wheelbarrows</b></p> <p><b>Buggies</b></p>	<p><b>KEY CONTENT</b>  <b>SHELTERS AND BRIDGES</b></p>
<b>VOCABULARY</b>	<p>Lego, kit, instructions, test, fault</p> <p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Materials and their properties / Light / Electricity                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>	<p>Shelter, structure, shape, design, strong, weak, flap, glue, cut, stick, triangle, evaluate, paper, card etc</p> <p><b>Cross curricular links</b>                      Literacy – writing                      Numeracy – Measuring/weighing/statistics                      Science – Materials and their properties / Forces                      RE/HISTORY/GEOGRAPHY – Decorative features / Aesthetics                      ICT – Planning and research                      Art - Decorative features / Aesthetics                      PSHE - Decorative features / Aesthetics</p>

# Design Technology Word Mat

function                      mechanism                      design                      equipment

template                      join                      draw                      cut                      practical

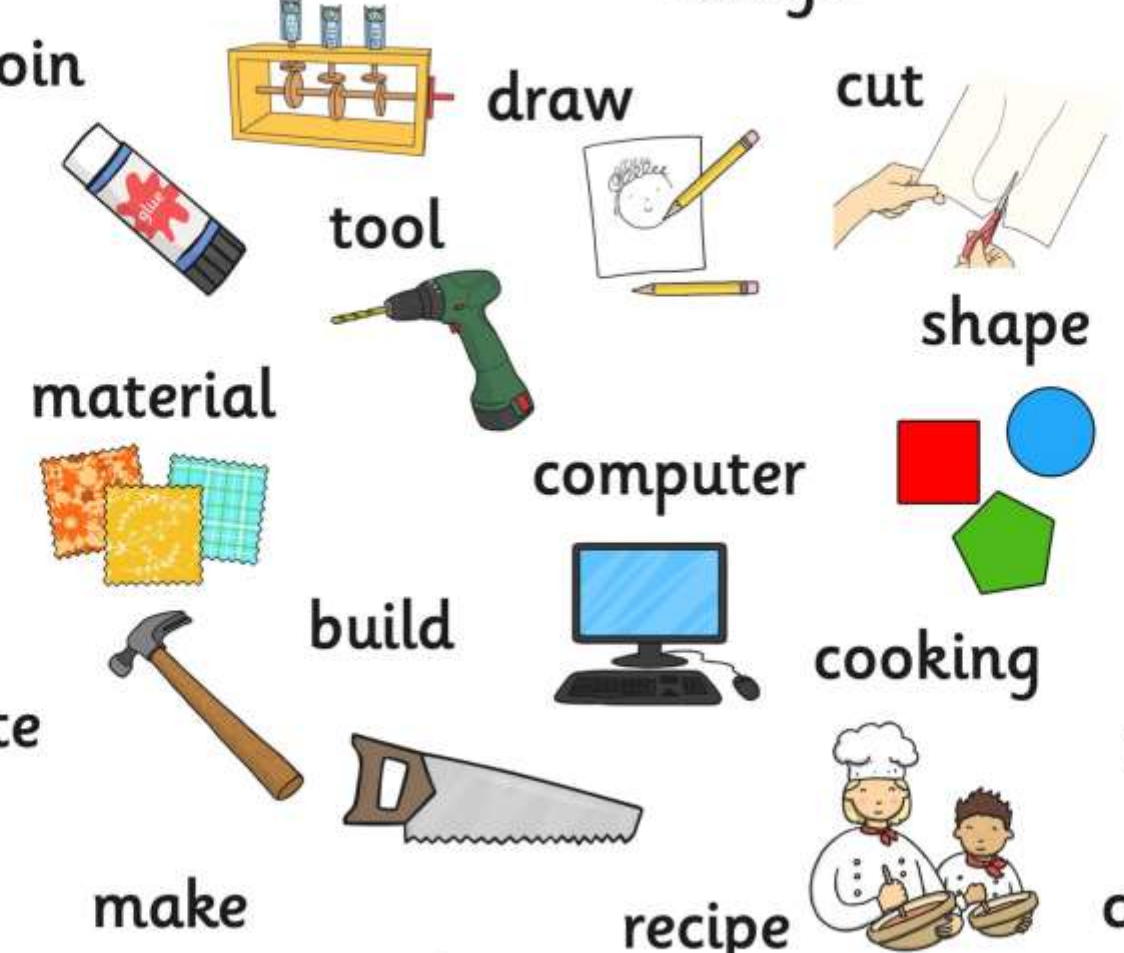
develop                      material                      tool                      shape                      mock-up

textile                      computer                      finish

evaluate                      build                      cooking                      ingredient

model                      make                      recipe                      construct

structure                      product



Skills Map – Growing, Cooking and Nutrition		
Lower Key Stage 2		
Growing - Pupils can ...	Cooking – Pupils ...	Nutrition – Pupils ...
<ul style="list-style-type: none"> <li>Name the sources of common ingredients found in meals.</li> <li>Name some foods produced in the UK. Can they name some foods produced outside the UK.</li> <li>Explain the climate and conditions affect when and where food is produced.</li> </ul> <p>See Science Coordinator for science topic links here</p>	<ul style="list-style-type: none"> <li>Know that there is a vast range of ingredients used around the world.</li> <li>Can understand that diets around the world are based on similar food groups.</li> <li>Know that food is prepared in different ways due to a number of factors, including country, culture, custom and religion.</li> <li>Can use the eat-well plate and consider the needs of different people when planning and cooking food.</li> <li>Can suggest and demonstrate healthier ways to prepare and cook foods.</li> <li>Can read and interpret basic nutrition information on food packaging when making choices.</li> <li>Can plan and prepare food appropriate for a range of different occasions.</li> </ul>	<ul style="list-style-type: none"> <li>Can understand that a range of factors determine what is eaten throughout the world.</li> <li>Can see the differences between diets varying in individuals for reasons such as availability, preference, resources, time, culture and religion.</li> <li>Can understand that a variety and balance of food and drink is needed in a healthy diet.</li> <li>Can identify and classify unfamiliar and composite dishes according to the 5 groups depicted in the eat-well plate?</li> <li>Can understand that different diets may comprise similar raw foods combined in different ways?</li> <li>Can understand the different proportions of the model in relation to their own diet?</li> <li>Can use the eat-well plate when devising meals and menus for themselves and others?</li> </ul> <p>See Science Coordinator for science topic links here</p>

	Year 3 Healthy sandwiches / PIZZAS Year 4 Flap Jacks/ healthy biscuits	
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Skills Map – Growing, Cooking and Nutrition	
Lower Key Stage 2	
Food	Enjoying Food
<ul style="list-style-type: none"> <li>• Can they combine fresh, precooked and processed foods according to their sensory characteristics?</li> <li>• Do they consider that people have different preferences?</li> <li>• Can they explore databases that are useful for holding survey information?</li> <li>• Can they divide food into different groups? Can they recognise foods that form a healthy diet? Can they explore different combinations of ingredients that can affect the taste and texture of the product?</li> <li>• Can they use appropriate language related to food products? Can they explain the importance of hygienic food preparation and storage?</li> <li>• Can they recognise that combinations of ingredients, preparation and cooking can affect the end product?</li> </ul>	<ul style="list-style-type: none"> <li>• Do they understand the important social aspects of food and how families in the past used to eat?</li> <li>• Can they explain that lots of food ingredients are used around the world?</li> <li>• Can they experience food from a different culture and comment on their opinions?</li> <li>• Can they recognise that diets around the world are based on the 5 food groups?</li> <li>• Can they use their prior skills to create food for special occasions?</li> </ul> <p>See Science/RE/Geog Coordinator for topic links here</p>

Skills Map – Growing, Cooking and Nutrition		
Upper Key Stage 2		
Growing - Pupils can ...	Cooking – Pupils can ...	Nutrition – Pupils can ...
<ul style="list-style-type: none"> <li>• Can explain that food goes through basic processes before it reaches us.</li> <li>• Can explain how that at home we process food to make it edible and safe.</li> <li>• Can describe how food is processed on a large scale in places such as restaurants and factories to make it edible and safe to eat.</li> </ul> <p>See Science Coordinator for science topic links here</p>	<ul style="list-style-type: none"> <li>• Write and follow recipes.</li> <li>• Weigh and measure accurately.</li> <li>• Select and use the most appropriate ingredients and equipment to plan and cook a range of dishes.</li> <li>• Can modify existing recipes.</li> <li>• Can demonstrate an extended range of food skills and techniques.</li> <li>• Can describe how food can spoil and decay due to the action of microbes, insects and other pests.</li> <li>• Can explain how to use date marks and food storage instructions on food packaging.</li> <li>• Can demonstrate good personal hygiene when cooking.</li> <li>• Can demonstrate good food safety and hygiene when cooking.</li> </ul> <p>Year 5 Bread Making Year 6 Plan and Prepare a healthy meal ( After SATS Science lessons)</p>	<ul style="list-style-type: none"> <li>• Understand that different types of food provide different amounts of energy.</li> <li>• Can demonstrate how different amounts of food, known as portions, provide different amounts of energy.</li> <li>• Can explain that all food and drink provide nutrients.</li> <li>• Can explain that other nutrients include vitamins and minerals, which are needed to keep the body healthy.</li> <li>• Can describe how some foods also provide fibre but the body doesn't digest this.</li> <li>• Can recognise that the amount of energy and nutrients provided by food depends on the portion eaten.</li> <li>• Understand that energy is provided by the nutrients, carbohydrates fat and protein.</li> <li>• Can understand the functions of different nutrients.</li> <li>• Can recognise the nutrients provided by each section of the eat-well plate.</li> </ul> <p>See Science Coordinator for science topic links here</p>

Skills Map – Growing, Cooking and Nutrition	
Upper Key Stage 2	
Food – Pupils ...	Enjoying Food – Pupils ...
<ul style="list-style-type: none"> <li>Can adapt a recipe by adding or substituting an ingredient.</li> <li>Can change ingredients by using a heat source.</li> <li>Can recognise that there is a wide variety of food products from different cultural traditions.</li> <li>Can recognise that different food products are an important part of a balanced diet.</li> <li>Can investigate and evaluate bread products according to their characteristics.</li> <li>Can use appropriate vocabulary to describe different food products.</li> <li>Can compare the processes involved in making different food products – commercial and domestic.</li> <li>Can recognise that ingredients have different characteristics.</li> <li>Know that the proportion of ingredients will affect the product.</li> <li>Can apply the rules for basic food hygiene and other safe practices</li> </ul> <p>Year 5 Bread Making Year 6 Plan and Prepare a healthy meal ( After SATS Science lessons)</p> <p>See Science Coordinator for science topic links here</p>	<ul style="list-style-type: none"> <li>Can recognise that food around the world is prepared in different ways, sometimes because of culture, customs and religion.</li> <li>Know about a country and how its customs and culture can affect the food people eat.</li> <li>Can describe an experience of trying food from a different culture? Do they understand how different families eat their meals and know how to use basic cooking skills and equipment to prepare food.</li> <li>Can describe their experience the part food has to play in special, social occasions.</li> </ul> <p>See Science/RE/Geography Coordinator for topic links here</p> <p><b>Vocabulary – All year groups</b>  <b>food preparation:</b>                  bake -To cook in an oven.                  baste -To coat with oil while roasting.                  beat -To mix with a fork or whisk.                  boil -To cook in water held at boiling point.                  dice -To cut into cubes.                  glaze -To coat with egg or milk to give a shiny finish after baking.                  grill -To cook close to a heat source.                  knead -To form a dough mixture.                  Roast- To baste with hot oil to keep food moist while cooking in an oven.                  rub in -To mix together flour and fat using the fingertips until it resembles fine breadcrumbs.                  set -To allow a liquid or runny mixture to solidify when cooled.                  Simmer- To almost boil, but where bubbles only break the surface from time to time.</p>



