

Care, Share, Respect, Learn!

|           | Progression Statements   |   |  |  |
|-----------|--|---|--|--|
|           | EYFS   | Years 1 and 2   | Years 3 and 4  | Years 5 and 6  |
| Designing | <ul> <li>Develop their small motor skills so that they can use a range of tools competently, safely and confidently.</li> <li>Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor.</li> <li>Develop overall body-strength, balance, coordination and agility</li> <li>Hold a pencil effectively in preparation for fluent writing - using the tripod</li> </ul> | <ul> <li>Work within a range of contexts e.g story based, playgrounds., local community, industry and wider environment</li> <li>State what products they are designing and making</li> <li>Say whether their products are for themselves or other users.</li> <li>Describe what their products are for</li> <li>Say how their products work and how they're suitable for intended users</li> <li>Use existing knowledge to generate their own original designs.</li> </ul> | <ul> <li>Work confidently in a range of contexts e.g home, school, leisure, culture and wider environment</li> <li>Describe the purpose of products</li> <li>Indicate design features of products</li> <li>Gather information about the needs and wants of individual groups</li> <li>Develop their own design criteria and use this to inform ideas</li> <li>Share and clarify ideas through discussion</li> <li>Model ideas using prototypes and pattern pieces</li> <li>Use annotated sketches, diagrams and</li> </ul> | <ul> <li>Work confidently in a wide range of contexts. E.g. home, school, leisure, culture, industry, enterprise and wider environment</li> <li>Describe in detail the purpose of products</li> <li>Indicate design features of their products that will appeal to intended users</li> <li>Gather information about the needs and wants of particular individuals and groups</li> <li>Develop their own design criteria and use this to inform ideas</li> <li>Carry out research e.g surveys and interviews, questionnaires and</li> </ul> |



Care, Share, Respect, Learn!

| grip in almost all<br>cases | <ul> <li>Use knowledge of<br/>existing products to<br/>help come up with<br/>ideas</li> <li>Develop and<br/>communicate ideas by<br/>talking and drawing</li> <li>Model ideas by<br/>exploring components,<br/>construction kits and<br/>making templates and<br/>mock-us</li> <li>Use ICT where<br/>appropriate to develop<br/>and communicate ideas</li> </ul> | some computer-aided<br>design packages, to<br>develop and<br>communicate ideas,<br>focusing on the needs<br>of the user<br>• Take into account the<br>availability of resources | <ul> <li>web based resources<br/>to identify users' needs<br/>and wants and<br/>preferences</li> <li>Develop detailed<br/>design specifications to<br/>guide their thinking<br/>and planning</li> <li>Share and clarify ideas<br/>confidently through<br/>discussions</li> <li>Model ideas using<br/>prototypes and pattern<br/>pieces</li> <li>Use annotated<br/>sketches, cross-<br/>sectional drawings,<br/>exploded diagrams and<br/>computer –aided<br/>design packages, to<br/>develop and<br/>communicate ideas.</li> <li>Generate realistic</li> </ul> |
|-----------------------------|--|---|--|
|                             |  |   | develop and communicate ideas.   |



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|        |   |   |  | <ul> <li>the availability of resources</li> <li>Generate innovative ideas drawing on research</li> <li>Make informed design decisions based on time, cost and resources constraints</li> </ul>   |
|--------|---|---|--|--|
| Making | <ul> <li>Safely use and<br/>explore a variety of<br/>materials, tools<br/>and techniques,<br/>experimenting with<br/>colour, design,<br/>texture, form and<br/>function.</li> <li>Return to and build<br/>on their previous<br/>learning, refining<br/>ideas and<br/>developing their<br/>ability to represent<br/>them.</li> <li>Explore, use and<br/>refine a variety of<br/>artistic effects to</li> </ul> | <ul> <li>Plans by suggesting<br/>what to do next</li> <li>Selects from a range of<br/>tools, materials and<br/>components according<br/>to their characteristics</li> <li>Explains their choices</li> <li>Follows procedures for<br/>safety and hygiene</li> <li>Uses a range of<br/>materials, components,<br/>construction kits,<br/>textiles, food<br/>ingredients and<br/>mechanical products</li> <li>Measures, marks out<br/>and cuts a range of</li> </ul> | <ul> <li>Select tools and<br/>equipment suitable for<br/>the task</li> <li>Explain their choices,<br/>giving evidence</li> <li>Select materials and<br/>components suitable<br/>for the task</li> <li>Order the main stages<br/>of making logically</li> <li>Follow procedures for<br/>safety and hygiene</li> <li>Use extensive range of<br/>materials and<br/>components suitable<br/>for the task e.g textiles,<br/>mechanical,<br/>construction kits,</li> </ul> | <ul> <li>Confidently select tools<br/>and equipment<br/>suitable to the task</li> <li>Explain their choices<br/>giving evidence</li> <li>Select materials and<br/>components suitable<br/>for the task</li> <li>Produce appropriate<br/>list of tools, equipment<br/>and materials that they<br/>need</li> <li>Order the stages of the<br/>making process in<br/>logical steps</li> <li>Formulate step by step<br/>plans as guide to<br/>making</li> </ul> |



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| express their ideas<br>and feelings.<br>• Use a range of<br>small tools,<br>including scissors,<br>paintbrushes. | <ul> <li>materials and<br/>components</li> <li>Assembles, joins and<br/>combines materials and<br/>components</li> <li>Begins to use finishing<br/>techniques, including<br/>those from art and<br/>design sessions</li> </ul> | <ul> <li>electrical and food<br/>ingredients</li> <li>Measures, marks out,<br/>cuts and shapes<br/>materials and<br/>components with<br/>accuracy</li> <li>Accurately assembles,<br/>joins and combines<br/>most materials</li> <li>Accurately applies<br/>several finishing<br/>techniques including<br/>those from art and<br/>design sessions</li> <li>Use techniques that<br/>involve a number of<br/>steps</li> <li>Use resourcefulness<br/>when tackling practical<br/>problems</li> </ul> | <ul> <li>Follow procedures for<br/>safety and hygiene</li> <li>Use extensive range of<br/>materials components<br/>e.g textiles,<br/>mechanicals,<br/>construction kits,<br/>electrical and food<br/>ingredients</li> <li>Measures, marks out,<br/>cuts and shapes<br/>materials and an<br/>shapes materials and<br/>components with<br/>accuracy</li> <li>Accurately assembles,<br/>joins and combines<br/>materials</li> <li>Accurately apply a<br/>range of finishing<br/>techniques including<br/>those from art and<br/>design</li> <li>Use techniques that<br/>involve a number of<br/>steps</li> <li>Use resourcefulness<br/>and resilience and</li> </ul> |
|--|--|--|---|
|--|--|--|---|



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|            |  |  |   | <ul> <li>innovation when<br/>tackling practical<br/>problems</li> <li>Explain next steps in<br/>learning drawing from<br/>prior experience</li> </ul>  |
|------------|--|--|---|--|
| Evaluating | <ul> <li>Return to and build<br/>on their previous<br/>learning, refining<br/>ideas and<br/>developing their<br/>ability to represent<br/>them.</li> <li>Explore, use and<br/>refine a variety of<br/>artistic effects to<br/>express their ideas<br/>and feelings.</li> </ul> | <ul> <li>Talk about their design ideas and what they are making</li> <li>Make simple judgements about their products and ideas against design criteria</li> <li>Talk and write about how to make their products better</li> <li>Explore what products are, what they are made from, who they are for, how they are losed and where they might be used</li> <li>Talk about likes and dislikes of existing products with reason</li> </ul> | <ul> <li>Identify strengths and<br/>areas for development<br/>in their ideas and<br/>products</li> <li>Consider the views of<br/>others, including the<br/>intended users, to<br/>improve their work</li> <li>Refer to the design<br/>criteria as they design<br/>and make</li> <li>Use their design<br/>criteria to evaluate and<br/>improve their<br/>completed products</li> <li>Critically evaluate the<br/>quality of their design,<br/>manufacture and the<br/>fitness for purpose of<br/>their products</li> </ul> | <ul> <li>Confidently identify the strengths and areas for development in their ideas and products</li> <li>Consider the views of others, including intended users, to improve their work</li> <li>Refer to their design criteria as they design and make</li> <li>Use their design criteria to evaluate and improve their completed products</li> <li>Critically evaluate the quality of the design manufacture and fitness for purpose of their products</li> </ul> |



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| <ul> <li>Evaluate their ideas<br/>and products against</li> </ul> | <ul> <li>Evaluate their ideas<br/>and products against</li> </ul> |
|---|---|
|   |   |
| the original design   | their original design   |
| specification   | specification   |
| <ul> <li>Investigate and analyse</li> </ul>                       | <ul> <li>Investigate and</li> </ul>                               |
| how well products   | analyse: how well   |
| have been made and  | products have been  |
| designed, why   | designed and made;  |
| materials have been   | why materials have  |
| chosen; what methods  | been chosen; what   |
| of construction have  | methods of  |
| been used; how well   | construction were   |
| the products worked;  | used; how well the  |
| whether they achieved   | products worked;  |
| their purpose and   | whether they achieve  |
| needs/wants of the  | ,<br>their purpose and the  |
| users   | wants/needs of the  |
| <ul> <li>Investigate and</li> </ul>                               | users   |
| analyse: who designed   | <ul> <li>Investigate and</li> </ul>                               |
| the products; where   | analyse; who designed   |
| products were   | the products; where   |
| designed and made;  | the products were   |
| when products were  | designed and made;  |
| designed and made;  | when products were  |
| whether products can  | designed and made;  |
| be recycled or reused   | whether products can  |
| Recognise several   | be recycled and reused  |
| inventors, designers,   | <ul> <li>Investigate and</li> </ul>                               |
| chefs, manufacturers  | analyse: how much   |
|   |   |



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|                        |  |   | and engineers who<br>have been influential in<br>design and technology<br>industries<br>(link with local study)   | <ul> <li>products cost to make;</li> <li>how innovative</li> <li>products are; how</li> <li>sustainable the</li> <li>materials in products</li> <li>are; what impact</li> <li>products have beyond</li> <li>their intended purpose</li> <li>Recognise several</li> <li>inventors, designers,</li> <li>chefs, manufacturers,</li> <li>and engineers, who</li> <li>have been influential in</li> <li>the design and</li> <li>technology industries</li> </ul> |
|------------------------|--|---|---|---|
| Technical<br>knowledge | <ul> <li>Return to and build<br/>on their previous<br/>learning, refining<br/>ideas and<br/>developing their<br/>ability to represent<br/>them.</li> <li>Explore, use and<br/>refine a variety of<br/>artistic effects to<br/>express their ideas<br/>and feelings.</li> </ul> | <ul> <li>Pupils understand the working characteristics of materials and components</li> <li>They know about the movement of simple mechanisms such as levers, sliders, wheels and axles</li> <li>Recognise that food ingredients should be combined according to their sensory characteristics</li> </ul> | <ul> <li>Pupils use learning<br/>from science,<br/>mathematics and other<br/>subjects to help design<br/>and make products<br/>that work</li> <li>They understand that<br/>materials have<br/>functional and<br/>aesthetic qualities</li> <li>Apply this thinking<br/>successfully to their<br/>own products</li> </ul> | <ul> <li>Pupils use learning from science, mathematics. And from several subjects and sources to help design, make and evaluate products that work.</li> <li>They understand that materials have aesthetic and functional qualities</li> </ul>  |



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| <br>   |  |  |
|--|--|--|
| <ul> <li>Understanding how<br/>free standing structures<br/>can be made stronger,<br/>stiffer and more stable</li> <li>Recognise that 3D<br/>textiles products can be<br/>assembled from 2<br/>identical fabric shapes</li> <li>Use the correct<br/>technical vocabulary for<br/>projects</li> </ul> | <ul> <li>Recognise that<br/>materials can be<br/>combines and mixed to<br/>create more useful<br/>characteristics</li> <li>Know that mechanical<br/>and electrical systems<br/>have an input, process<br/>and output</li> <li>Know how mechanical<br/>systems such as levers<br/>and linkages create<br/>movement</li> <li>Know that simple<br/>electrical circuits and<br/>components can be<br/>used to create<br/>functional products</li> <li>Program computer to<br/>control their products</li> <li>Make strong, stiff shell<br/>structures for a<br/>purpose</li> <li>Know that a single<br/>fabric shape can be<br/>used to make a 3d<br/>textile product</li> </ul> | <ul> <li>Apply this thinking successfully to their own products</li> <li>Recognise that materials can be combined and mixed to create more useful characteristics</li> <li>Know that mechanical and electrical systems have an input, process and output.</li> <li>Know how mechanical systems such as levers and linkages create movement</li> <li>Know that simple electrical circuits and components can be used to create functional products</li> <li>Program computer systems and devices to control products</li> <li>Make strong, stiff shell structures for a program computer</li> </ul> |
|  |  | purpose  |



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|  | Pocognico a rango of                           | • Know that a single                     |
|--|--|--|
|  | Recognise a range of     froch and pro-specied |  |
|  | fresh and pre-cooked                           | fabric shape can be<br>used to make a 3d |
|  | foods  |  |
|  |  | textile product                          |
|  |  | Recognise a wide range                   |
|  |  | of fresh, pre-cooked                     |
|  |  | and processed foods                      |
|  |  | <ul> <li>Know that mechanical</li> </ul> |
|  |  | systems e.g cams,                        |
|  |  | pulleys or gears create                  |
|  |  | movement                                 |
|  |  | • Explore more complex                   |
|  |  | electrical circuits and                  |
|  |  | components                               |
|  |  | <ul> <li>Program computers</li> </ul>    |
|  |  | and devices to monitor                   |
|  |  | changes in the                           |
|  |  | environment and                          |
|  |  | control their products                   |
|  |  | Reinforce and                            |
|  |  | strengthen a 3d                          |
|  |  | framework                                |
|  |  |  |
|  |  |  |
|  |  | products can be made                     |
|  |  | from a combination of                    |
|  |  | fabric shapes                            |
|  |  | Recreate and adapt                       |
|  |  | existing and new                         |



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|                          |   |   |  | recipes by adding or substituting a range of ingredients   |
|--------------------------|---|---|--|--|
| Cooking and<br>nutrition | <ul> <li>Know and talk<br/>about the different<br/>factors that<br/>support their<br/>overall health and<br/>wellbeing - healthy<br/>eating.</li> </ul> | <ul> <li>Know that food comes<br/>from plants or animals</li> <li>Food is farmed, grown<br/>elsewhere (e.g home),<br/>imported or caught</li> <li>Name and sort foods<br/>into the 5 groups in the<br/>'eat well' plate</li> <li>Begin to recognise that<br/>everyone should eat at<br/>least5 portions a day of<br/>fruit and vegetables</li> <li>Know how to prepare<br/>simple dishes safely and<br/>hygienically without<br/>using a heat source</li> <li>Use techniques e.g.<br/>cutting, chopping,<br/>peeling and grating</li> </ul> | <ul> <li>Know that food is<br/>farmed, reared, grown<br/>elsewhere (e.g. home,<br/>allotments), exported,<br/>imported or caught.<br/>This can be on a local,<br/>regional and<br/>international scale</li> <li>Know how to prepare<br/>and cook a variety of<br/>savoury and some<br/>sweet dishes safely and<br/>hygienically including<br/>the use of a heat<br/>source</li> <li>Know how to use a<br/>wide range of<br/>techniques such as<br/>peeling, chopping,<br/>slicing, grating, mixing,<br/>spreading, kneading<br/>and baking</li> <li>Know that a healthy<br/>diet is made up of a<br/>variety and balance of</li> </ul> | <ul> <li>Know that food is farmed, reared, grown elsewhere (e.g. home, allotments), exported, imported or caught. This can be on a local, regional and international scale</li> <li>Begin to know that seasons and weather affect food availability</li> <li>Begin to know how food is processed into ingredients that can be eaten or used in cooking</li> <li>Know how to prepare and cook a variety of savoury and sweet dishes safely and hygienically, including</li> </ul> |



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|  | different foods and<br>drinks, as depicted in   | the use of a heat   |
|--|---|---|
|  | <ul> <li>drinks, as depicted in the 'eatwell plate'</li> <li>Know that to be active and healthy, food is needed to provide energy for the body</li> </ul> | <ul> <li>Source</li> <li>Know how to use a wide range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</li> <li>Know that a healthy diet is made up of a variety and balance of different foods and</li> </ul> |
|  |   | drinks as depicted on<br>the 'eatwell plate'  |
|  |   | <ul> <li>Know that to be active<br/>and healthy, food is<br/>need to provide energy<br/>for the body</li> </ul>   |
|  |   | <ul> <li>Know that recipes can<br/>be adapted to change</li> </ul>  |
|  |   | the taste, texture, aroma and appearance  |
|  |   | • Know that different   |
|  |   | foods contain<br>substances that are  |
|  |   | substances that die   |



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|  |  | needed for health e.g<br>water, fibre, vitamins,<br>minerals and nutrients  |
|--|--|---|
|  |  | <ul> <li>Understand that<br/>healthy diets must<br/>incorporate the correct<br/>amounts of food types<br/>and substances</li> </ul> |
|  |  | <ul> <li>Understand that<br/>exercise is also<br/>important for<br/>wellbeing and fitness</li> </ul>                                |