## Sutton Park Primary School

## Design and Technology Knowledge and Skills Progression

## Research



| Design | Year 1 | Year 2 | Year 3 4 | Year 5 |
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## Make: Cooking and Nutrition



| Understand that food has to be farmed, grown elsewhere (e.g. home) or caught <br> Develop a food vocabulary using taste, smell, touch and texture <br> Grate and chop a range of ingredients <br> Measure and weigh food items using non-statutory measures such as cups <br> Demonstrate how to work safely and hygienically <br> Assemble or cook ingredients. |  | Say how and why they need to work safely and hygienically by providing examples they have used when preparing the food using utensils <br> Use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking <br> Understand seasonality and which products can be grown locally and which can't. <br> 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 <br> Measure ingredients to the nearest gram accurately. <br> Follow a recipe and assemble or cook ingredients |  |  | Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. <br> Create and refine recipes, including ingredients, methods <br> Know that seasons may affect the food available <br> Know how food is processed into ingredients that can be eaten or used in cooking |
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| Make: Mechanisms |  |  |  |  |  |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Outcome: Create a moving picture <br> Create a mechanism using a lever <br> Use the lever to move a picture | Outcome: Create a pulley <br> Build on their scientific knowledge of the transference of forces in year 3 to choose appropriate mechanisms for a product <br> Draw on their knowledge of pulley systems to solve a problem to demonstrate how the Egyptians made it easier to lift rocks using pulleys <br> Build a wooden frame and strengthen this with diagonal struts <br> Measure, mark and cut the wood to 1 cm <br> Attach and construct the pulley system |  |  | Outcome: Create a Hull Fair ride using cams <br> Build frameworks using a range of material to support mechanisms <br> Know how mechanical systems such as cams or and gears create movement <br> Convert rotary motion to linear using cams |


| Make: Textiles |  |  |  |  |  |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Outcome: Create a textile square to represent The Great Fire of London |  | Outcome: Create a Roman Toga or a stola | Outcome: Headscarf |  |



| Make: Structures |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Outcome: Make a dolls house <br> Build on their scientific knowledge of properties of materials to choose |  |  | Outcome: Make a bridge <br> Cut wood using a hacksaw | Outcome: Build a model of a flood proof house. <br> Test a range of materials for strength |  |



| Evaluate | Year 2 | Year 3 | Year 4 | Year 5 |
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