



## Reeth Community Primary School and Gunnerside Methodist (VC) Primary School Federation

### Design and Technology

	Design	Make	Evaluate	Construction	Textiles	Food, Cooking and Nutrition
Emergent	<ul style="list-style-type: none"> <li>Create, develop and communicate ideas through talk, simple drawings and mock-ups</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to cut and join materials</li> </ul>	<ul style="list-style-type: none"> <li>Explore the positive and negative qualities of a range of things e.g. finished models, existing products and experiences</li> </ul>	<ul style="list-style-type: none"> <li>Build structures from a range of materials, exploring how they can be made stronger and more stable</li> </ul>	<ul style="list-style-type: none"> <li>Explore cutting and joining fabrics using scissors and glue</li> </ul>	<ul style="list-style-type: none"> <li>Understand that food comes from a range of origins e.g. trees, the ground, animals</li> <li>Understand the need for hygiene when handling food</li> </ul>
Early	<ul style="list-style-type: none"> <li>Use drawings and labels to convey what will be made</li> <li>Identify a target group and design an appropriate product</li> </ul>	<ul style="list-style-type: none"> <li>Perform a range of practical tasks including measuring, marking out, cutting and joining</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the qualities of the finished product and explore ways that it could be improved</li> <li>Discuss any changes made during the making process and why</li> </ul>	<ul style="list-style-type: none"> <li>Explore and use a range of mechanisms e.g. levers, sliders, wheels and axles</li> </ul>	<ul style="list-style-type: none"> <li>Cut out shapes from fabric that have been created by drawing round a template</li> <li>Join fabric in a range of ways e.g. glue, staples and running stitch</li> </ul>	<ul style="list-style-type: none"> <li>Group familiar food groups e.g. vegetables</li> <li>Work hygienically and safely to chop, peel, cut and grate a range of ingredients</li> <li>Understand the need for a variety of food in a diet</li> </ul>
Middle	<ul style="list-style-type: none"> <li>Investigate existing products to inform design ideas</li> <li>Generate a success criteria</li> <li>Begin to create labelled drawings from a range of views showing specific features</li> </ul>	<ul style="list-style-type: none"> <li>Measure, mark out, cut and join materials with growing accuracy</li> </ul>	<ul style="list-style-type: none"> <li>Identify strengths and weakness of the finished product</li> <li>Discuss how well the product meets the success criteria</li> </ul>	<ul style="list-style-type: none"> <li>Apply understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>Develop the use of mechanisms to create a more complex product</li> <li>Explore and incorporate simple electrical circuits into designs and products</li> </ul>	<ul style="list-style-type: none"> <li>Create a simple pattern that shows awareness and understanding of seam allowance</li> <li>Join fabrics using a range of stitches including running, back and over stitching with increasing neatness and control</li> <li>Explore the properties of different fabrics and suitable uses for them e.g. denim, cotton, wool, satin</li> </ul>	<ul style="list-style-type: none"> <li>Understand the basic food groups</li> <li>Work hygienically and safely to prepare, combine and cook a range of ingredients to create healthy snacks</li> <li>Make healthy eating choices based on a balanced diet</li> </ul>
Later	<ul style="list-style-type: none"> <li>Develop a considered design specification which could be followed by someone else</li> <li>Create sketches of alternative ideas, selecting one to develop in depth</li> </ul>	<ul style="list-style-type: none"> <li>Measure, mark out, cut, shape and join materials with accuracy and quality of finish, using a range of equipment</li> <li>Select from and use a wide range of materials and components according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate the finished product against the design specification and consider the ideas of others to improve their work</li> <li>Reflect on how well the product fits the need of the user</li> </ul>	<ul style="list-style-type: none"> <li>Understand and utilise mechanical systems e.g. gears, pulleys, linkages and cams</li> <li>Understand and incorporate a range of electrical components into a product e.g. series circuits with switches, bulbs, buzzers and motors</li> <li>Apply understanding of computing to program, monitor and control their products</li> </ul>	<ul style="list-style-type: none"> <li>Create simple 3D products using pattern pieces and seam allowances</li> <li>Choose appropriate fabrics best suited to the product, taking their properties and qualities into account</li> </ul>	<ul style="list-style-type: none"> <li>Apply understanding of a balanced diet to plan/create a healthy meal</li> <li>Understand seasonality and know where a variety of ingredients are grown, reared, caught and processed</li> <li>Work hygienically and safely to join and combine ingredients, e.g. rubbing in, and select and prepare food for a specific purpose e.g. gluten free</li> </ul>
Extended	<ul style="list-style-type: none"> <li>Add further detail to a design, which could include: technical detail of materials and processes, cutting lists</li> <li>Designs show evidence of modification through investigation and on-going evaluation</li> </ul>	<ul style="list-style-type: none"> <li>Completed products are made to a high standard with high attention to quality of finish</li> <li>Materials are used sensitively and economically to create a product which meets a strict criteria</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate a range of aspects throughout the design and making process, making changes as required to improve the finished product</li> </ul>	<ul style="list-style-type: none"> <li>Apply knowledge of construction and electrical components to show how more advanced systems create functional products</li> </ul>	<ul style="list-style-type: none"> <li>Create an increasingly robust textile product which offers day to day usability</li> </ul>	<ul style="list-style-type: none"> <li>Suggest appropriate and interesting alternatives to suit dietary requirements</li> <li>Understand and apply the principles of nutrition and it's impact on the body</li> </ul>