

Year 3 Progression in Design Technology

Structures	Mechanical Systems	Electrical Systems	Computer Programming	Textiles	Cooking and Nutrition
<p>Shell Structures</p> <ul style="list-style-type: none"> ● I know how to construct strong, stiff shell structures ● I know how to use knowledge of nets of cubes, cuboids and 3d shapes to construct shell structures 	<p>Pneumatics</p> <ul style="list-style-type: none"> ● I know how pneumatic mechanisms work and how they are used in the real world 	<ul style="list-style-type: none"> ● 	<ul style="list-style-type: none"> ● 	<p>2d shape to 3d product</p> <ul style="list-style-type: none"> ● I know how to securely join two pieces of fabric together (stitching, fastening and finishing) 	<p>Healthy sandwiches</p> <ul style="list-style-type: none"> ● I know how to use appropriate equipment and utensils to prepare and combine ingredients in sandwiches ● I know that different combinations of ingredients lead to different flavours and tastes
<p>Shell Structures</p> <ul style="list-style-type: none"> ● I will know what shell structures are and how they used in the world around me ● I will know how to explore realistic and appropriate ideas focusing on the needs of the user ● I will know how to investigate and evaluate shell structures ● I will know how to design a product for my intended purpose and user ● I will know how to generate realistic and appropriate ideas focusing on the needs of the user ● I will know how to make my product using the design criteria ● I will know how to evaluate my product for the intended purpose and intended user 	<p>Pneumatics</p> <ul style="list-style-type: none"> ● I will know what a pneumatic system is and how it is used in the world around me ● I will know how to explore realistic and appropriate ideas focusing on the needs of the user ● I will know how to investigate and evaluate common pneumatic systems ● I will know how to design a product for my intended purpose and user ● I will know how to generate realistic and appropriate ideas focusing on the needs of the user ● I will know how to make my product using the design criteria ● I will know how to evaluate my product for the intended purpose and intended user 			<p>2d shape to 3d product</p> <ul style="list-style-type: none"> ● I will know what textiles products are and how they used in the world around me ● I will know how to explore realistic and appropriate ideas focusing on the needs of the user ● I will know how to investigate and evaluate common textile products ● I will know how to design a product for my intended purpose and user ● I will know how to generate realistic and appropriate ideas focusing on the needs of the user ● I will know how to make my product using the design criteria ● I will know how to evaluate my product for the intended purpose and intended user 	<p>Healthy & Varied Diet</p> <ul style="list-style-type: none"> ● I will know what healthy food products are and how they used in the world around me ● I will know how to explore realistic and appropriate ideas focusing on the needs of the user ● I will know how to investigate and evaluate healthy sandwich products ● I will know how to design a product for my intended purpose and user ● I will know how to generate realistic and appropriate ideas focusing on the needs of the user ● I will know how to make my product using the design criteria ● I will know how to evaluate my product for the intended purpose and intended user