



Links to other subject units this term	
This unit will link to Science and the exploration of materials and their properties; looking for the suitability of materials to perform a certain job i.e. make a packed lunch box to fulfil given criteria.	
Prior Learning	
The children will use their knowledge and experience of existing products to help generate their ideas.	
Key vocabulary for this unit	
<p>strong, stiff, stable, waterproof design, construct evaluate materials, equipment plan test criteria product tools improve, modify</p>	
Learning Sequence	
Why Not keep the basket?	<ul style="list-style-type: none"> Evaluate a product (lunch basket) against a list of criteria. Decide whether it is 'fit for purpose' and, if not, why not?
Evaluating Lunch Boxes	<ul style="list-style-type: none"> Evaluate a variety of existing lunch boxes. Decide whether they are 'fit for purpose' and, if not, why not? Use a set of criteria to make any evaluative decisions
Exploring Materials	<ul style="list-style-type: none"> Explore different materials that a lunch box can be made from and decide which will be useful / appropriate for making a product

	<ul style="list-style-type: none"> • Design and label a new product that meets the given design criteria using a given planning format
Making the Lunch Box	<ul style="list-style-type: none"> • Select tools and equipment and make the lunch box according to the design model from the previous lesson
Testing the Lunch Box	<ul style="list-style-type: none"> • Test and evaluate the product against the given design criteria • Identify the strength and weaknesses of the product
Improving the Lunch Box	<ul style="list-style-type: none"> • Use evaluations to make improvements to the product and then retest and evaluate it once more • Improve the product by making it stronger, stiffer, more stable and more waterproof
Assessment milestones	
<ul style="list-style-type: none"> • Draw and describe a simple design • Build a structure • Test and evaluate the structure against the original criteria 	D&T Knowledge: <ul style="list-style-type: none"> • Evaluate the pros and cons of an existing product • Make suggestions about how to improve the structure