D&T – Year 2 – Autumn Term
Pirate Paddy's Packed Lunch Problems

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
strong, stiff, stable, waterproof design, construct evaluate materials, equipment plan test criteria product tools improve, modify
Learning Sequence

Why Not keep the basket?	• 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	• 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	• Explore different materials that a lunch box can be made from and decide which will be useful / appropriate for making a product • Design and label a new product that meets the given design criteria using a given planning format

Making the Lunch Box	• Select tools and equipment and make the lunch box according to the design model from the previous lesson
Testing the Lunch Box	• Test and evaluate the product against the given design criteria • Identify the strength and weaknesses of the product
Improving the Lunch Box	• 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	
• **Draw and describe a simple design** • **Build a structure** • **Test and evaluate the structure against the original criteria**	**D&T Knowledge:** • **Evaluate the pros and cons of an existing product** • **Make suggestions about how to improve the structure**