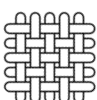


	Autumn Term	Spring Term	Summer Term
Area of D&T	 Textiles Combining different fabric shapes 7-8 hours	 Mechanical Systems Cams 7-8 hours	 Cooking & Nutrition Celebrating Culture and Seasonality 7-8 hours
Design Brief	 Product : Bag  User: The children or a family member/ friend.  Purpose: To carry a specific item.  Inspire Text: The Bag of Warmth	 Product : Toy  User: Themselves, other children.  Purpose: For entertainment and play  Inspire Text: Rainforests in focus (part of In Focus Forests)	 Product : Spring Rolls  User: Themselves, friends or family members.  Purpose: To discover food from other cultures.  Inspire Text: The Runaway Wok.
Materials	Cotton, polyester, silk, pinking shears, thread, needles, pins, pens, fabric chalk, ruler, tape measure, buttons.	MDF, card or wooden wheels, plastic or wooden cams, dowel, card boxes, PVA glue, masking tape, double-sided tape, square section wood, card, junior hacksaws, G-clamps, bench hooks, hand drill.	Range of relevant food examples, recipes, ingredients, cooking utensils, oven.
Knowledge & Techniques	Children will design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification.	Children will learn that mechanical systems have an input, process and an output and how cams can be used to produce different types of movement and change the direction of movement. Children will make products that that are accurately assembled and well finished.	Children will explore first hand and secondary sources to carry out relevant research into existing products. Develop a design brief and specification within a context that is authentic and meaningful and relates to nutrition and healthy eating.
Curriculum Links	Maths - Measurement and shape. Art and Design – use and apply drawing skills. Science – work scientifically investigating properties of fabrics.	Science – forces and movement: explore the effects of simple machines on movement. Maths – use mathematical vocabulary to describe position, direction and movement.	Science – using and developing skills of observing, questioning, changing state of ingredients. Maths – measuring mass kg/g. Understand and use approximate equivalences between metric and imperial units.
Key Vocabulary	Seam, seam allowance, reinforce, right side, wrong side, hem, pattern pieces, names of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings, design criteria, design decisions, functionality, innovation, evaluate.	Cam types used, axle, shaft, crank, handle, housing, framework rotation, rotary motion, oscillating motion, reciprocating motion, mechanical system, input movement, process, output movement.	Hygiene, culture, fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality ingredient names, utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape.