



St. Cuthbert's Catholic Primary School

DT: Long Term Overview



	AUTUMN TERM	SPRING TERM	SUMMER TERM
Y1	Textiles: Patient's Slippers CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know that any light, low-cut shoe into which the foot may be easily slipped, for casual wear in the home is classed as a slipper - Know that most slippers are made with a fleece lining and rubber sole - Know that different methods of cutting and joining materials include stapling, sewing, gluing and fastening using other items - Know that slippers must be durable and comfortable to fit their purpose - Be able to evaluate their slipper design and final product	Construction/Use of Materials: London's Bridge and Buildings CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Using appropriate tools and a range of materials to make structures/models - Strengthening models - Suggest how their products could be improved. - Use straws to make a bridge. - Know which materials should be used when making a bridge. - Join and measure materials with glue and sellotape.	Cooking and Nutrition: Teddy Bear's Picnic CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know a range of foods that appear within the five food groups on the Eatwell plate - Know which animals produce a range of foods (cow – milk, cheese, beef; hen – eggs, chicken; pig -sausages, ham) - Know a variety of foods that are suitable for a picnic. - Design & make their own sandwich using a range of skills (spread, cut/slice, grate) - To evaluate their sandwich and suggest improvements.
	Key Vocabulary Material, Fabric, Cutting, Joining, Tool, Decorate	Key Vocabulary Equipment, Join, Suitable, Mark out, Components, Product	Key Vocabulary Ingredients, Healthy, Slicing, Grate, Hygiene, Texture
Y2	Mechanisms: Moving pictures CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know that a popup book is a book with paper elements within the pages that may be moved by the reader. - Know that pictures books need illustrations to make them engaging for the reader. - Know that a lever is a rigid bar which moves around a pivot. Levers are used in many everyday products. In this project children will use card strips for levers and paper fasteners for pivots.	Use of Materials/Construction: Animal Enclosures CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Join and measure materials. - Use joining, rolling and folding to build strength. - Make simple judgements about their products and ideas against design criteria. - Use their knowledge of animal enclosures to create freestanding structures.	Cooking & Nutrition: African Cuisine CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know a variety of fruits that originate from Africa and have experience of tasting them (banana, papaya, pineapple, date, watermelon, mango) - Know how fruit is farmed and appears in local supermarkets (farm to fork) - Use equipment to peel and cut soft fruits (chopping board and knives) - Use a range of skills to prepare soft fruits (fork secure, claw grip and bridge hold)



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	- Know that a slider is a rigid bar which moves backwards and forwards along a straight line. - Be able to design and evaluate a picture book including a mechanism		- Design and make an African fruit salad. - Evaluate their final product against a design criterion and talk about how to improve their dish.
	Key Vocabulary Lever, pivot, slider, Mechanism, Illustration, Paper Fastener/Split Pin	Key Vocabulary Structure, Materials, Strengthen, Fold, Stronger, Flange	Key Vocabulary Chopping board, Produce, Farmed, Peel, Cut, Tropical Fruits
Y3	Mouldable Materials: Clay Pots CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - To know that pottery is the process and the products of forming vessels and other objects with clay. - To know that there are 3 main techniques to mould and shape clay; slab method, coil method and pinch method. - Know that ceramic glaze, or simply glaze, is a glassy coating on ceramics. It is used for decoration and to ensure the item is impermeable to liquids. - Know ways to make a clay pot using air drying clay including a pattern for aesthetic design being big enough to hold small items for its function.	Cooking & Nutrition: Garden Salad CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know about a range of salads. - Know that food is reared and caught. - Know that a healthy diet is made up from a variety and balance of different foods and drinks, as depicted in the 'Eatwell' plate. - Measure in grams. - Suggest further improvement to their product.	Textiles: Fashion Accessory CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Know different types of money wallets (size, clasp, material, colours, compartments) - Know the most appropriate material for a money wallet - Know how to do an overlock stitch - Be able to design a money wallet for the target audience - Evaluate a product with consideration for the target audience
	Key Vocabulary Design Criteria, Finishing techniques, Functional Aesthetic, Fit for purpose, Purpose, User	Key Vocabulary Salad, Healthy diet, Measure, Appealing, Improvement, Variety, Balanced	Key Vocabulary Accessory, Secure, Fastenings, Overlock stitch, Decoration, Waterproof, Functional
Y4	Stiff/Flexible Sheet Materials: Lunch boxes CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: Know that a lunch box is a container in which to carry a packed meal.	Cooking & Nutrition: Afternoon Tea CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: Know how seasons effect food availability	Electrical & Mechanical Components: Torches CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will:



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	- Know that a lunch box must be made of a durable material strong enough to keep food safe - Know the best materials to make a lunch box from - Know that a lunch box is made from a 2D net with fastenings to create a 3D cube - Be able to make a lunch box fit for purpose	- Know that to be active and healthy, food is needed to provide energy for the body - Follow a recipe	- Know that a torch is a battery powered, portable lamp that includes a circuit and a bulb to fit its function of being a light source - Know that the components of a torch are: a bulb, battery, connecting wires and a casing - Know how to create a simple circuit including a switch - Know the components needed to design a functioning torch - Be able to evaluate my final product of a torch.
	Key Vocabulary Shell structure, Tabs, Assemble, Scoring, Components, Reuse, Accuracy, Lamination	Key Vocabulary Preparation, Nutrition, Flavour, Texture, Mix, Season, Moist, Display	Key Vocabulary Torch, Electricity, Circuit, Light Source, Switch, Battery, Conductor, Insulator
Y5	Cookery & Nutrition: Savoury Bread CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Investigate different bread products including their design and taste. - Know about Paul Hollywood and his bread recipes. - Explain the importance of carbohydrates within a balanced diet. - Know what ingredients are needed to make bread. - Know how to create different effects to make bread aesthetical pleasing. - Design a bread product for a target audience or event. - Evaluate a product, taking taste and aesthetic into consideration.	Mechanical Components: Fairground Rides CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Understand how cams, pulleys and gears create movement. - Test and refine products. - Evaluate appearance and function against design criteria.	Textiles: Bags for Life CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: - Research bags and their uses. - Research materials used for bags. - Produce detailed plans including equipment and materials needed - Use appropriate stitches, joining techniques and finishing techniques - Critically evaluate a final product.
	Key Vocabulary Dough, Yeast, Wheat, Carbohydrate, Knead, Proving, Gluten, Rise, Plain Flour	Key Vocabulary Cams, Gears, Pulleys, Mechanical System, Axle, Moveable, Cogs, Drive Belt, Motor	Key Vocabulary Design Specification, Prototype, Stitch, Embellishment, Seam, Seam allowance, Functionality, Pattern Pieces, Wadding



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Y6	Cookery & Nutrition: Great British Dishes CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: • Know that a recipe can be adapted a by adding or substituting • Know that recipes can be adapted to change the appearance, taste, texture and aroma • Work out ratios in recipes. • Know about the life and work of chef, Paul Askew. • Know how to communicate ideas through sketches, drawings and diagrams.	Stiff & Flexible: Bird Boxes CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: • Strengthen, stiffen and reinforcing products. • Hide joints to improve aesthetics • Use market research to improve designs	Electrical Components: Board Games CORE LEARNING (SKILLS & KNOWLEDGE) By the end of this unit, children will: • Use different kinds of circuits. • Understand how more complex electrical circuits and components can be used to create functional products. • Critically evaluate the quality of the design, manufacture and fitness for purpose.
	Key Vocabulary Allergy, Intolerance, Nutrition, Combine, Whisk, Utensils, Aroma, Ratio, Method, Thicken	Key Vocabulary Reinforce, Sealant, Properties, Assemble, Marking out, Weathering, Joint, Corrugating, Stability, Precision	Key Vocabulary Series Circuit, Parallel Circuit, Conductor, Insulator, Input device, Output device, Connection, Fault, Push-to-make switch, Push -to-break switch