





Yearly Overview Subject: DT Year Group: 2

DT Primary - Project on a page	Autumn 1	Spring 1	Spring 2	
Unit of work	Food - Preparing fruit and vegetables https://drive.google.com/file/d/1CKpePJGwtbylmZ74 RVj7bg7DOIToluWe/view?usp=sharing	Structures - Freestanding Structures https://drive.google.com/file/d/1DbwldGBbPu-VJC5tx 5K8uyfsdC17EpPs/view?usp=sharing	Mechanisms - Wheels & Axels https://drive.google.com/file/d/1nFlDfHBr1oVT7f3lxn WKbFMGnqpgvgSR/view?usp=sharing	
NC Objectives (Linked to Programme of Study)	<ul> <li>The national curriculum for design and technology aims to ensure that all pupils:         <ul> <li>develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world</li> <li>build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users</li> <li>critique, evaluate and test their ideas and products and the work of others</li> <li>understand and apply the principles of nutrition and learn how to cook.</li> </ul> </li> </ul>			
Project title	Healthy Salad  Design, make and evaluate a healthy salad (product) for the family (user) for lunch (purpose)	Bridge To design, make and evaluate a bridge (product) to cross the River Thames (user) safety / using suitable materials (purpose.)	Making movable cars  Design, make and evaluate a car (product) for the team (user) to use in a class race (purpose)	
Prior Knowledge	Experience of common fruit and vegetables, undertaking sensory activities i.e. appearance taste and smell.     Experience of cutting soft fruit and vegetables using appropriate utensils.	<ul> <li>Experience of using construction kits to build walls, towers and frameworks.</li> <li>Experience of using of basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card.</li> <li>Experience of different methods of joining card and paper.</li> </ul>	<ul> <li>Assembled vehicles with moving wheels using construction kits.</li> <li>Explore moving vehicles through play.</li> <li>Gained some experience of designing, making and evaluating products for a specified user and purpose.</li> <li>Developed some cutting, joining and finishing skills with card.</li> </ul>	
Composite knowledge (Inc. Key Questions)	Technical knowledge and understanding  • Understand where a range of fruit and vegetables come from e.g. farmed or grown at home.  • Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of The eat well plate.  • Know and use technical and sensory vocabulary relevant to the project.  - Which fruit/vegetables might be the best for our	Technical knowledge and understanding  • Know how to make freestanding structures stronger, stiffer and more stable.  • Know and use technical vocabulary relevant to the project.  - What are the structures called and what is their purpose?  - How have the parts been joined together?  - How have the structures been made strong	Technical knowledge and understanding  • Explore and use wheels, axles and axle holders.  • Distinguish between fixed and freely moving axles.  • Know and use technical vocabulary relevant to the project.  - How do you think the wheels move?  - How do you think the wheels are fixed onto the car?  - Why do you think the product has this number of	







	product to match the occasion/purpose? - Why do we cut, grate, peel and slice in this way?	enough? - How have they been made stable?	wheels? - Why do you think the wheels are round?
Key Concepts  (Component / intentional knowledge - what they need to understand)	Designing  Design appealing products for a particular user based on simple design criteria.  Generate initial ideas and design criteria through investigating a variety of fruit and vegetables.  Communicate these ideas through talk and drawings.  Making  Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely.  Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product.  Evaluating  Taste and evaluate a range of fruit and vegetables to determine the intended user's preferences.  Evaluate ideas and finished products against design criteria, including intended user and purpose.	Designing Generate ideas based on simple design criteria and their own experiences, explaining what they could make. Develop, model and communicate their ideas through talking, mock-ups and drawings.  Making Plan by suggesting what to do next. Select and use tools, skills and techniques, explaining their choices. Select new and reclaimed materials and construction kits to build their structures. Use simple finishing techniques suitable for the structure they are creating.  Evaluating Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings. Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria.	Designing  • Generate initial ideas and simple design criteria through talking and using own experiences.  • Develop and communicate ideas through drawings and mock-ups.  Making  • Select from and use a range of tools and equipment to perform practical tasks such as cutting and joining to allow movement and finishing.  • Select from and use a range of materials and components such as paper, card, plastic and wood according to their characteristics.  Evaluating  • Explore and evaluate a range of products with wheels and axles.  • Evaluate their ideas throughout and their products against original criteria.
Vocabulary	flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, investigating tasting, arranging, popular, design, evaluate, criteria	structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved	vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism
Cross-curricular links	PSHE - Health	English - Fairy Tales	