



St. Peter's CUSP based Design and Technology

Long term sequence and progression

| CUSP: Design & Technology Long term sequence | Block A | Block B | Block C | Block D | Block E | Block F |
|---|--|--|---|---|--|--|
| Key Stage One Cycle A | <p>Discipline: Textiles Key concept: Exploring shape using a template</p> <p>Repurpose clothes</p> | <p>Discipline: Food and Nutrition Key concept: CUSP link: Animals, inc humans (Keeping Healthy)</p> <p>Salad Bread snack (pita crisp)</p> | <p>Discipline: Mechanisms Key concept: Axles & wheels</p> <p>Propel a simple vehicle Using a wheel</p> | <p>Discipline: Understanding Materials Key concept: Manipulating materials CUSP link: Use of everyday materials</p> <p>Waterproof hat.</p> | <p>Discipline: Food and Nutrition Key concept: Fresh and processed</p> <p>Potato Rosti</p> | <p>Discipline: Structures Key concept: Developing strength in structures</p> <p>How much weight can paper hold?</p> |
| Lower Key Stage 2 Cycle A | <p>Discipline: Textiles Key concept: Explore ways to stiffen & strengthening fabric to cover a box in order to make it rigid</p> | <p>Discipline: Food and Nutrition Key concept: CUSP link: Animals, inc humans Peel and grate a range of vegetables to make different dishes.</p> <p>Noodle salad Stuffed peppers Roasted cauliflower and dip</p> | <p>Discipline: Mechanisms Key concept: Hinges</p> <p>Make a range of hinges</p> | <p>Discipline: Food and Nutrition Key concept: Peel, grate and chop vegetables to make economical food</p> <p>Root veg rosti Mexican pasties Chickpea curry. CUSP link: Animals, inc humans</p> | <p>Discipline: Systems Key concept: How things are powered</p> <p>Identify how things are powered</p> | <p>Discipline: Structures Key concept: Spanning gaps</p> <p>Design and make a beam bridge</p> |
| Upper Key Stage 2 Cycle A | <p>Discipline: Food and Nutrition Key concept: Street food</p> <p>Pitta bread hummus Samosas Burrito</p> | <p>Discipline: Mechanisms Key concept: Pulleys & gears</p> <p>to design and make a Ferris wheel powered by gears.</p> | <p>Discipline: Textiles Key concept: Durability of fabric</p> <p>Lunch bag, Repurpose jeans and use bees wax.</p> | <p>Discipline: Food and Nutrition Key concept: What can you learn from different countries diets</p> <p>Stir fry, Bombay potatoes, Summer rolls. CUSP link: World countries</p> | <p>Discipline: Structures Key concept: Developing structures that are fit for purpose and design Make a shelter. CUSP link: Forces</p> | <p>Discipline: Systems Key concept: Complex switches and circuits Can switches perform more than one function CUSP link: Electricity</p> |

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| <p>Key Stage One Cycle B</p> | <p>Discipline: Mechanisms Key concept: Sliders & levers</p> <p>Make a card slider</p> | <p>Discipline: Structures Key concept: Freestanding structures with own foundation</p> <p>Tower with different methods of support</p> | <p>Discipline: Food and Nutrition Key concept: How does food effect your senses? CUSP: Link Animals inc humans</p> <p>Peel, chop grate</p> | <p>Discipline: Understanding Materials Key concept: Selecting materials CUSP link: Materials</p> <p>Identifying and sorting materials in construction.</p> | <p>Discipline: Textiles Key concept: Joining techniques CUSP link: Hot & cold places</p> <p>Running stitch. How would two pieces of materials keep you warm.</p> | <p>Discipline: Food and Nutrition Key concept: Why are vegetables the best?</p> <p>Peel, grate and chop</p> |
| <p>Lower Key Stage Two Cycle B</p> | <p>Discipline: Food and Nutrition Key concept: Make, roll and shape bread roll</p> <p>Pizza, bread, soup</p> | <p>Discipline: Structures Key concept: Designing structures using a frame to make them stronger and sturdier</p> <p>Make triangles to form and join trusses. Identify forces.</p> | <p>Discipline: Textiles Key concept: Fixings & fastenings</p> <p>Select appropriate fastenings, make a shank.</p> | <p>Discipline: Food and Nutrition Key concept: Balanced diet</p> <p>Fruity Yogurt Popcorn Chips (Not processed) CUSP link: Animals, inc humans</p> | <p>Discipline: Electrical Systems Key concept: Switches and circuits revisited</p> <p>Switches in circuits. CUSP link: Electricity</p> | <p>Discipline: Mechanisms Key concept: Levers & linkages</p> <p>Design and make a simple lever and linkage products e.g Seesaw and Catapult CUSP link: Forces & Magnets</p> |
| <p>Upper Key Stage Two Cycle B</p> | <p>Discipline: Food and Nutrition Key concept: Varied diets across the world</p> <p>Flatbreads, mezze bowls, Smorgbord</p> <p>Presentation</p> | <p>Discipline: Mechanisms Key concept: Pulleys & gears</p> <p>How do you lift a car?</p> | <p>Discipline: Structures Key concept: Designing structures revisited – combining skills & knowledge</p> <p>How strong is a piece of spaghetti? Construct a buttress to support a tower</p> | <p>Discipline: Food and Nutrition Key concept: Does food affect the way you feel?</p> <p>Pasta with tomato sauce, Noodle soup Sensory salad</p> | <p>Discipline: Systems Key concept: Greener power</p> <p>How to keep yourself safe on the road Selecting material Fastenings Programming</p> | <p>Discipline: Textiles Key concept: Sustainable materials</p> <p>Recycling and repurposing</p> |