

Kingsway Junior School

Design & Technology Progression Map

1. Textiles Progression

Year	Key Skills	Project
3	Threading a needle, knotting, running stitch, cutting fabric accurately	Coaster (Binka)
4	As Year 3 plus blanket stitch, hemming, tacking, fastening, measuring and cutting to size	Pencil case (recycled fabrics)
5	Joining materials, adding handles (drawstring/shoulder), pocket design, developing a product	Bag with handle (recycled materials)
6	Combining materials, advanced fastenings (zip, button, popper), patchwork, stuffing, precision measuring	Pillow (recycled materials)

Progression focus:

Simple stitching → joining and finishing → functional design features → multi-material, precision construction

2. Cooking & Nutrition Progression

Year	Key Skills & Knowledge	Project
3	Healthy eating, food groups, hydration, simple preparation, basic budgeting	Healthy snack, fruit skewers, vegetable portions
4	Natural vs processed foods, balanced diet, proteins, food waste, budgeting	Breakfast pot, protein box, noodle pot
5	Seasonality, measuring (g/kg), kneading, proving, sifting, grating, baking skills	Cheese scones
6	Hygiene, food preparation, scaling recipes, spreading, plaiting, presentation skills	Bread rolls

Progression focus:

Basic nutrition → balanced diet understanding → technical cooking processes → independent recipe adaptation and presentation

3. Mechanical Systems Progression

Year	Key Skills	Project
Year 3	Pneumatics, cutting, measuring, simple assembly and decoration	Moving Monsters
Year 4	Cutting, measuring, joining, folding, creasing mechanisms	Story books
Year 5	Applied mechanisms through structural design and reinforcement	Bridges (Structures link included)

Progression focus:

Simple movement systems → mechanical construction → applied structural/mechanical design for purpose

4. Structures Progression

Year	Key Skills	Project
Year 5	Measuring, cutting, joining, reinforcing, shape and strength for purpose	Bridges
Year 6	Advanced structural design, material choice, reinforcement, audience-focused design	Fairground rides

Progression focus:

Basic strength and stability → engineered structures with purpose, audience, and load considerations

Overall Curriculum Progression

Across Years 3–6, pupils progress through:

- **Technical skills:** from basic cutting and joining → precise, multi-material construction
- **Design thinking:** from guided design → independent, user-focused products
- **Food skills:** from simple preparation → adapted recipes and baking processes
- **Materials understanding:** from single materials → combining textiles, wood, and mixed media
- **Evaluation:** from simple likes/dislikes → functional testing and improvement