	Autumn Term	Spring Term	Summer Term
Cycle A	Castles	Journeys	Bug Hunt
	Y1/2 Structures	Y1/2 Mechanisms: Wheels and axles.	Y1/2 Food Tech- Preparing fruit and
Key	Freestanding Structures	End product: Vehicle	vegetables.
concept	End product: Tower and wall		End product: Sandwich
Knowledge	Prior learning	Prior learning	Prior learning
and skills	Experience of using construction kits	Assembled vehicles with moving wheels using	Experience of common fruit and vegetables,
and skills	to build walls, towers and frameworks.	construction kits.	undertaking sensory activities i.e. appearance
	Experience of using of basic tools	Explored moving vehicles through play.	taste and smell.
	e.g. scissors or hole punches with	Gained some experience of designing, making	Experience of cutting soft fruit and vegetables
	construction materials e.g. plastic,	and evaluating products for a specified user and	using appropriate utensils.
	card.	purpose.	Designing
	 Experience of different methods of 	Developed some cutting, joining and finishing	Design appealing products for a particular user
	joining card and paper.	skills with card.	based on simple design criteria.
	Designing	Designing	Generate initial ideas and design criteria
	 Generate ideas based on simple 	Generate initial ideas and simple design	through investigating a variety of fruit and
	design criteria and their own	criteria through talking and using own	vegetables.
	experiences, explaining what they	experiences.	Communicate these ideas through talk and
	could make.	Develop and communicate ideas through	drawings.
	 Develop, model and communicate 	drawings and mock-ups.	Making
	their ideas through talking, mock-ups	Making	Use simple utensils and equipment to e.g.
	and drawings.	Select from and use a range of tools and	peel, cut, slice, squeeze, grate and chop safely.
	Making	equipment to perform practical tasks such as	Select from a range of fruit and vegetables
	Plan by suggesting what to do next. Select and use tools alville and.	cutting and joining to allow movement and	according to their characteristics e.g. colour,
	Select and use tools, skills and	finishing.	texture and taste to create a chosen product.
	techniques, explaining their choices. • Select new and reclaimed materials	Select from and use a range of materials and components such as paper, card, plastic and	Evaluating Taste and evaluate a range of fruit and
	and construction kits to build their	wood according to their characteristics.	vegetables to determine the intended user's
	structures. • Use simple finishing	Evaluating	preferences.
	techniques suitable for the structure	Explore and evaluate a range of products with	Evaluate ideas and finished products against
	they are creating.	wheels and axles.	design criteria, including intended user and
	Evaluating		purpose.

Blackboys Design Technology progression of knowledge and skills

Class 1 Year 1

 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.

Technical knowledge and understanding

- Know how to make freestanding structures stronger, stiffer and more stable.
- Know and use technical vocabulary relevant to the project.

• Evaluate their ideas throughout and their products against original criteria.

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.

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 Eatwell Guide.
- Know and use technical and sensory vocabulary relevant to the project.

Vocabulary

Cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder design, make, evaluate, user, purpose, ideas, design criteria, product, function.

vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used design, make, evaluate, purpose, user, criteria, functional.

fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, investigating tasting, arranging, popular, design, evaluate, criteria.

	Autumn Term	Spring term	Summer Term
Cycle B			
Key concept	My Heroes Y1/2 Food Tech- Preparing fruit and vegetables. End product: Fruit salad	Let it Snow Y1/2 Mechanisms: Sliders End product: Snow ball moving picture	Over the Waves Y1/2 textiles: Templates and joining techniques. End product: Pirate/mermaid puppet
Knowledge and skills	Prior learning • 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. 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.	Prior learning Early experiences of working with paper and card to make simple flaps and hinges. Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape. Designing Generate ideas based on simple design criteria and their own experiences, explaining what they could make. Develop, model and communicate their ideas through drawings and mock-ups with card and paper. Making Plan by suggesting what to do next. • Select and use tools, explaining their choices, to cut, shape and join paper and card. • Use simple finishing techniques suitable for the product they are creating. Evaluating Explore a range of existing books and everyday products that use simple sliders and levers. Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria. Technical knowledge and understanding Explore and use sliders and levers.	Prior learning • Explored and used different fabrics. • Cut and joined fabrics with simple techniques. • Thought about the user and purpose of products. Designing • Design a functional and appealing product for a chosen user and purpose based on simple design criteria. • Generate, develop, model and communicate their ideas as appropriate through talking, drawing, templates, mock-ups and information and communication technology. Making • Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing. • Select from and use textiles according to their characteristics. Evaluating • Explore and evaluate a range of existing textile products relevant to the project being undertaken. • Evaluate their ideas throughout and their final products against original design criteria. Technical knowledge and understanding

Blackboys Design Technology progression of knowledge and skills

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	Evaluate ideas and finished products against design criteria, including intended user and purpose. 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 Eatwell Guide. Know and use technical and sensory vocabulary relevant to the project.	Understand that different mechanisms produce different types of movement.	Understand how simple 3-D textile products are made, using a template to create two identical shapes. Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling. Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and ribbons. Know and use technical vocabulary relevant to the project.
Vocabulary	fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, investigating tasting, arranging, popular, design, evaluate, criteria.	slider, lever, pivot, slot, bridge/guide card, masking tape, paper fastener, join pull, push, up, down, straight, curve, forwards, backwards design, make, evaluate, user, purpose, ideas, design criteria, product, function	names of existing products, joining and finishing techniques, tools, fabrics and components template, pattern pieces, mark out, join, decorate, finish features, suitable, quality mockup, design brief, design criteria, make, evaluate, user, purpose, function.

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