

BWP Design and Technology Vocabulary Progression

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Mechanisms and Mechanical systems	Picture drawing experiment change tools materials use cut scissors fold corner push pull press	Sliders and Levers Slider lever pivot slot bridge guide card masking tape paper fastener join pull push up down staright curve forwards backwards	Wheels and Axles Vehicle wheel axle axle holder chassis body cab assembling cutting joining shaping finishing fixed free moving mechanism names of tools equipment and materials used	Levers and Linkages Mechanism lever linkage pivot slot bridge guide system input process output linear rotary oscillating reciprocating	Pneumatics Components fixing attaching tubing syringe plunger split pin paper fastener pneumatic system input movement process output movement control compression pressure inflate deflate pump seal air tight linear rotary oscillating reciprocating	Cams Cam snail cam off- centre cam peg cam pear shaped cam follower axle shaft crank handle housing framework rotation rotary motion oscillating motion reciprocating motion annotated sketches exploded diagrams mechanical system input movement process output movement	
Electrical Systems					Simple circuits and switches Series circuit fault connection toggle switch push-to-make switch push-to-break switch battery bulb bulb holder wire insulator conductor crocodile clip control program input device		Monitoring & Control Reed switch toggle switch push-to-make switch push-to-break switch light dependent resistor tilt switch light emitting diode LED bulb bulb holder USB cable wire insulator conductor crocodile clip crumble board program control
Structures		Freestanding Structures 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 2d/3d shape names			Shell Structures using CAD Shell structure 3D shape net 3d shape names vertex edge face length width breadth capacity marking out scoring shaping tabs adhesives joining assemble accuracy material stiff strong font lettering text graphics	Frame Structures Frame structure stiffen strengthen reinforce triangulation stability shape join temporary permanent	

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Textiles			Templates & joining Names of existing products joining and finishing techniques tools fabrics and components template pattern pieces mark out join decorate finish suitable features mock-up design brief	2D shape to 3D product Fabric names of fabric fastening compartment zip button structure finishing technique strength weakness stiffening templates stitch seam seam allowance pattern			Using CAD in textiles Computer aided design CAD computer aided manufacture CAM font lettering text graphics menu scale modify repeat copy flip seam seam allowance wadding reinforce right side wrong side hem template pattern pieces needles thread pinking shears fastenings
Cooking and Nutrition	Food meal snack, healthy diet	Preparing Fruit and Vegetables Fruit and vegetable names knife claw bridge chopping board sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard Flesh skin seed pip core slicing cutting healthy diet choosing ingredients planning investigating tasting arranging popular	Preparing Fruit and Vegetables Fruit and vegetable names grater peeler slice chopping board sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard peeling squeezing ingredients planning investigating tasting arranging popular	Healthy and Varied Diet Names of products names of equipment, utensils, techniques and ingredients Texture taste sweet sour hot spicy appearance smell preference greasy moist cook fresh savoury hygienic edible grown caught reared frozen tinned processed seasonal harvested healthy/varied diet planning purpose annotated sketch sensory evaluations		Celebrating culture and diversity Soup ingredients spice herbs fat sugar carbohydrate protein vitamins nutrients nutrition healthy varied gluten dairy allergy intolerance savoury source seasonality combine utensils stir sprinkle	Celebrating culture and diversity Yeast dough bran flour wholemeal baking soda ingredients spice herbs fat sugar carbohydrate protein vitamins nutrients nutrition healthy varied gluten dairy allergy intolerance savoury source seasonality combine utensils Fold knead combine rubbing in whisk beat roll out shape sprinkle crumble
Design/ Evaluate	Materials use idea improve	Design make evaluate user purpose ideas design criteria product function	Design make evaluate user purpose ideas design criteria product functional design brief design criteria	User purpose function prototype design criteria innovative appealing design brief annotated sketch label investigate aesthetics model evaluate	User purpose function prototype design criteria innovative appealing design brief research evaluate ideas constraints investigate	Design decisions functionality innovation authentic user purpose design specification design brief research annotated sketch	Design decisions functionality innovation authentic user purpose design specification design brief research annotated sketch mock-up