

TEXTILES

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Objectives/skills	<ul style="list-style-type: none"> • Threading beads of different sizes • Lacing cards • Sewing using up/down action on binca using plastic needle and wool to make an abstract pattern 	<ul style="list-style-type: none"> • Threading beads • Lacing cards • Weaving with paper strips • Sewing a running stitch on binca using plastic needles and wool 	<ul style="list-style-type: none"> • Sewing a running stitch on felt • Applique • Use of a large eyed metal needle and embroidery thread • Starting and finishing sewing 	<ul style="list-style-type: none"> • Sewing with smaller eyed metal needles • Sewing a range of stitches – running stitch, back stitch, whip stitch • Folding fabric and sewing together a 3D product • Using openings and closures • Adding embellishments to a product 	<ul style="list-style-type: none"> • Sewing with metal needles and sewing cotton • Combining a combination of 2D fabric shapes to make a 3D product • Use of stuffing to make a 3D product
Possible outcomes (Design, make, evaluate process)	<ul style="list-style-type: none"> • Calendar • Bookmark 	<ul style="list-style-type: none"> • Calendar • Bookmark 	<ul style="list-style-type: none"> • Finger/hand puppet (Literacy link) • Christmas decoration • Flags (Geography link) 	<ul style="list-style-type: none"> • Roman purse (Links to History) 	<ul style="list-style-type: none"> • Slipper (Linked to History topic) • Bean bag • Animal (Linked to Geography topic)

CONSTRUCTION

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Objectives/skills	<ul style="list-style-type: none"> Stacking blocks vertically and horizontally Making enclosures and creating spaces Joining construction pieces to build and balance Uses various construction materials 	<ul style="list-style-type: none"> Constructs with a purpose in mind, using a variety of resources Selects tools and techniques needed to shape, assemble and join materials Uses simple tools and techniques competently 	<ul style="list-style-type: none"> Making free standing structures Explore ways of strengthening, stiffening and reinforcing structures 	<ul style="list-style-type: none"> Making a strong shell structure – ensuring stability Appropriate use of materials Use of nets 	<ul style="list-style-type: none"> Applying understanding of how to strengthen, stiffen and reinforce more complex structures Use of triangles to strengthen
Possible outcomes (Design, make, evaluate process)	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Make a Playground (link to Geography local study) Make a house (link to Literacy traditional tales) 	<ul style="list-style-type: none"> Packaging (Link to food topic) Trinket box Christmas Eve box Photo frame 	<ul style="list-style-type: none"> Shelters Bridges (link to London topic) Chairs Adventure playgrounds

MECHANICAL SYSTEMS

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Objectives/skills	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Using construction sets to make vehicles with wheels 	<ul style="list-style-type: none"> • Explore how sliders can be used • Explore how levers and pivots create a moving mechanism • Investigate wheel mechanisms • Investigate wheels, axles and chassis 	<ul style="list-style-type: none"> • Investigate products with link and leverage systems • Make moving mechanisms with link and leverage systems • Investigate pneumatic systems 	<ul style="list-style-type: none"> • Investigate cams, pulleys and gears
Possible outcomes (Design, make, evaluate process)	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Vehicles using mobilo/kiddy-knex 	<ul style="list-style-type: none"> • Moving pictures (Levers, pivots and sliders) • Vehicles e.g. fire engine (Wheels, axles and chassis) 	<ul style="list-style-type: none"> • Pop up story book • Model of Iron Man (literacy link – using 2 of the 3 areas) 	<ul style="list-style-type: none"> • Moving rainforest creatures (link to Geography topic)

ELECTRICAL SYSTEMS

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Objectives/Skills				<ul style="list-style-type: none"> Investigate and use simple circuits (switch and bulb/buzzer) 	<ul style="list-style-type: none"> Investigate and use more complex circuits (light, buzzer, motor)
Possible outcomes (Design, make, evaluate process)				<ul style="list-style-type: none"> Make a Christmas tree decoration 	<ul style="list-style-type: none"> Make a lighthouse (fog horn/buzzer and lights) (link to Geography Coasts and Literacy)

Computer Systems

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Skills					
Possible outcomes (Design, make, evaluate process)					

FOOD AND NUTRITION

	Nursery	Reception	Y1/2	Y3/4	Y5/6
Skills	•	•	<p>Where does food come from?</p> <ul style="list-style-type: none"> Local/UK grown food Growing our own food <p>Food preparation</p> <ul style="list-style-type: none"> Cutting, peeling, grating food (Not cooking) 	<p>Food preparation</p> <ul style="list-style-type: none"> Slicing, spreading Using a heat source <p>Eating a healthy and varied diet</p> <p>Food is grown, reared and caught</p>	<p>Where does food come from?</p> <ul style="list-style-type: none"> Seasonality of food products in UK/Europe <p>Processing of food into ingredients</p> <p>Food preparation</p> <ul style="list-style-type: none"> Mixing, kneading, baking Adapt to change taste, texture and aroma
Possible outcomes (Design, make, evaluate process)	•	•	<ul style="list-style-type: none"> Visit to a local farm shop Fruit salad, fruit kebabs, salad 	<ul style="list-style-type: none"> Savoury dishes with different cooking techniques e.g. soup and sandwiches 	<ul style="list-style-type: none"> Making a product e.g. bread