

Design and technology

Equipment list

© Copyright Kapow Primary 2022 www.kapowprimary.com

Content

EYFS: Reception	3
Year 1	4
Year 2	5
Year 3	7
Year 4	9
Year 5	11
Year 6	12

Please note that this Equipment list doesn't include equipment which could be expected to be in any typical primary classroom (eg. pencils, rulers, A4 paper)

© Copyright Kapow Primary 2022 www.kapowprimary.com

EYFS (Reception) - Equipment list

Structures: Junk modelling		Structure	es: Bo	pats_
Junk modelling supplies		Water tray and water		Counters for playing bingo
Scissors (right and left handed, squeeze scissors,		Sieve		Suggested books- 'Brilliant boats' and 'Once upon a
craft scissors)		Measuring tube		Tide'
Materials to cut: foam packing peanuts, bubble		A range of materials to test: cotton wool sheet,		Scissors
wrap, grass, flowers, cooked pasta, kitchen roll		paper, bin bag, felt, cling film, tin foil		Glue sticks
tubes, tin foil, feathers, straws, playdough		A range of objects to test: empty yoghurt pot,		Boats and containers to test: plastic toy boats, ice
Materials to make temporary joins: ribbons, string,		pebble, plasticine ball, tin foil, plastic bottle, piece of		cream containers, small pots or bowls, tin foil boats,
wool, building blocks and bricks, stickle/bristle		paper, plastic toy, cardboard box		flat trays or containers
bricks, paper and paper clips, unifix cubes,				Junk modelling supplies
velcro-based items				
Food: Soup		<u>Textiles: B</u>	ookm	narks
Whole and pre-chopped fruits and vegetables	٠	Threading beads		Coloured paper or thin card
(bananas, apples, tomatoes, cucumbers, oranges,	۵	Wool or string		Scissors
spinach, radishes, peas etc.)		Numicon		Таре
Chopping boards	۵	Large plastic needles		Glue sticks
Several whole pumpkins		Cardboard threading shapes or wooden threading		Small sheet of hessian per child (often sold under
Tuff tray		boards		the brand name Binca)
Scoops		Ribbons		Coloured wool
Spoons		Wire cooling rack or similar		Blunt-ended sewing needles
Containers		Coloured paper cut into strips		
Large paper for class design (optional)				
Playdough				
Plastic or child-safe metal knives (+ one adult				
cutting knife)				

Year 1 - Equipment list

<u>Me</u>	chanisms: Making a moving storybook	Structures: Constructing a windmill	<u>Textiles: Puppets</u>
0 0 0 0 0 0	Teddy bear (or other toy) Lolly sticks (or strips of stiff card) Scissors PVA glue with spreaders Hole-punch Card or thick paper A reception or Year 1 class to test the finished storybooks!	□ Scissors □ Tape (preferably masking tape) □ Different sized paper cups □ Modelling dough □ Bendy straws □ Cocktail sticks □ Dowel (optional) □ A device for taking photos	□ Little Red Riding Hood story (optional) □ Glove, mitten and hand puppet examples □ Fabric scraps □ Safety pins □ Staplers and staples □ Fabric glue (or PVA) □ Felt □ Fabric scissors (if available) □ Decorations (wool, buttons, ribbon etc.)
	Mechanisms: W	<u>/heels and axles</u>	Cooking and nutrition: Smoothies
00000000	Items that have wheels Straws Paper Glue or masking tape Scissors Materials for making car body: cardboard tubes, cardb Materials for making car axle: straws, dowel (pre-cut to Materials for car wheels: wooden wheels, card discs, p Laptops or tablets with access to Microsoft Office Decorations for car: tissue paper, glitter, googly eyes (continued)	□ Selection of fruits and vegetables (see Teacher knowledge in Lesson 1: Fruits) □ Large sugar paper or large plastic hoops □ Paper plates □ Post-it notes □ Ready made smoothie □ Smoothie cups □ Manual juicers □ Table knives □ Chopping boards □ Blenders □ Paper / hand towels □ Additional adults	

Year 2 - Equipment list

	Mechanisms: Fairground wheel		Cooking and nut	rition:	Balanced diet
00 000 00 000	Circular objects for children to draw around (optional) Materials with different properties (rubbers, paper, card, rulers etc) Small, plain paper plates Paper straws Modelling dough or sticky tack (optional) Empty clean food packaging (large milk bottles or cracker boxes) Hole punches (optional) Heavy objects to weigh down the packaging (sand, marbles, building bricks etc) Art materials Thin card Split pins or short length of pipe cleaner		Plastic cups and plates Food pieces for taste testing (see Lesson 4: Taste-testing ingredients) Cocktail sticks Ingredients for wrap Table knives Tin foil Chopping boards Additional adults	0 0 0 0 0 0	A fork Green chopping board Box grater White chopping board Scissors Bowls or cups to snip into Spoons Large bowl
<u>N</u>	lechanisms: Making a moving monster		Structures: Baby bear's chair		Textiles: Pouches
00000000	Mechanical and non-mechanical objects Plasticine Pre-cut card strips (thin and thick card) Paper fasteners Scissors Glue Colouring pencils Masking tape Thin and thick card Materials for features, such as: cotton wool, wool, foil, buttons, pipe cleaners, lolly sticks	0000000	Stiff cardboard Playdough A pile of exercise books Masking tape A4 paper Cylindrical objects (glue sticks, board pens etc) Goldilocks and the Three Bears story book Materials you choose to make the chair, such as: paper and masking tape OR straws and pipe cleaners OR recycled materials Sandwich bags	0 0 0 0 0 0	Children's needles Thread (thick, but not wooly) Small pieces of felt Needle threading tool (optional) Scissors (ideally fabric scissors) Pins Felt Sequins or other decorative items

Year 3 - Equipment list

	Textiles: Cross-stitch and appliqué		Electrical systems: Electric poster	<u>N</u>	Mechanical systems: Pneumatic toys
	<u>Cushions</u>		Books and resources about the Romans		Balloons
	Scraps of fabric		Corrugated card		Таре
	Children's sewing needles		Coloured card		Glue
	Thread		Scissors		Small, lightweight toy
	Needle threaders (optional)		Glue sticks		Syringes: 2 the same size, 1 a different size
	Safety pins (optional)		Masking tape		Tubing to connect syringes
	A3 paper		Erasers		Connectors
	Pins		Crocodile wires		Mild disinfectant
	A collection of fabrics		MES science bulbs and bulb holders		Sandwich bags
	Plastic wallets for storage		AA single battery holders		A box with a hinged lid
	Scissors		AA batteries		Bottles
	Stuffing				Elastic bands
	Egyptian collars				Paper fasteners/ Split pins
	Scraps of fabric				Packaging and recycling materials
	Children's sewing needles				Materials to make the toy, such as: card, straws,
	Needle threaders (optional)				pipe cleaners, cotton wool, buttons, socks,
-	Thread				stuffing etc
	Stitch unpicker				Colouring pencils
	Safety pins or sewing clips (optional)				Decorative materials, such as: tissue paper,
_	A4 felt sheets				textured paper, feathers, pom-poms, googly eyes,
-	A range of fabrics				sequins etc.
_	A range of beads				
	Chalk				
_	Ribbons				
	Pinking scissors (zig-zag or scalloped)				
_	Planting october 5 (2.18 248 et seamspea)	1.1 /1.1			

Year 3 - Equipment list continued

Digital world: Wearable technology		Cooking and nutrition: Eating seasonally			Structures: Constructing a castle		
	Laptops/ desktop computers / tablets with access		Chopping boards		2D shapes to draw around (optional)		
	to BBC micro:bit editor and Sketchpad through		Two vegetable knives		3D maths shapes		
	an internet browser or app (tablets)		Two green chopping boards		Scissors		
	BBC micro:bits with battery packs of MI:power		Two large bowls		Glue sticks		
	coin cell boards (optional)		A brown chopping board		Blutac		
	Micro USB cables (optional)		Three peelers		Таре		
	A toy car		Oven		Toilet/ kitchen roll tubes and other packaging		
	Wearable technology examples		Tablets / computers		Squared paper (optional)		
	Non-digital and digital technology examples		Seasonal vegetables for tart (see <u>Lesson 4: Tasting</u>		Laptops or tablets with access to Microsoft Office		
			seasonal ingredients)		A3 card		
			Ingredients for tart:, ready rolled puff pastry,		A3 coloured card		
			pesto or tomato paste, cheese, fresh basil		Material textures printed (stone tiles, brickwork		
			Additional adults		etc)		

Year 4 - Equipment list

	Electrical systems: Torches	Mec	hanical systems: Making a slingshot car	D	igital world: Mindful moments timer
٠	Electrical circuit component sets: batteries, battery holders, wires, bulb, buzzer and motor	0	Wooden dowel or rod (30cm) Wheels (38-40mm) with central holes		A range of timers, such as: sand-timers, egg-timers, digital stopwatches, analogue timers
	Cardboard / card		Drinking straws		etc
	Split pins		Paper clips		BBC micro:bit with battery packs or MI power
	Paper clips		Lolly sticks		coin cell boards and USB cables (optional)
	Recycled materials to make the body of the torch,		Elastic bands		Laptops/ desktop computers/ tablets to access
	such as: plastic bottles, packaging, cardboard etc.		Masking tape		the BBC micro:bit editor and Sketchpad through
	Foil		Glue gun and/ or PVA glue and spreaders		an internet browser or an app
	Scissors		Toy cars		Scissors
			Colouring pencils		Glue sticks
			Plastic cups OR building blocks OR card boxes for		Double sided tape
			a crash target!		Colouring pencils
			Card		Coloured card
			Coloured card		Sugar paper
			Scissors		Corrugated coloured paper / card
			Glue sticks		Modelling clay
			Stopwatches		Art straws
					Masking tape

Year 4 - Equipment list continued

□ Six different types of biscuits for taste-testing □ Gumdrops or plasticine □ Physical examples of fastenings (zips, velcro, buttons, press studs etc optional) □ Plates □ Toothpicks / cocktail sticks □ A3 paper □ Six different types of biscuits for taste-testing □ Toothpicks / cocktail sticks □ A3 paper □ Basic biscuit recipe ingredients: butter, caster sugar, egg yolk, vanilla extract, plain flour □ Materials for making the frame: matchsticks, lolly sticks, toothpicks, straws, card, pipe cleaners, card triangles etc □ Fastenings for children to use, such as: press studs, buttons, tie, velcro □ Additional ingredients: cocoa powder, chocolate chips, porridge oats, honey, mini marshmallows, raisins, desiccated coconut, dried fruit, cinnamon, lemon or orange zest, sprinkles, chocolate, icing. □ Glue guns □ Fabric □ Butter knives □ Craft materials for cladding: tracing paper, card, sweet wrappers, leaves, crepe paper, fabrics, □ Thread □ Wooden states □ Scheio dute	Co	oking and nutrition: Adapting a recipe		Structure: Pavilions	<u>Textiles: Fastenings</u>
		Plates Basic biscuit recipe ingredients: butter, caster sugar, egg yolk, vanilla extract, plain flour Additional ingredients: cocoa powder, chocolate chips, porridge oats, honey, mini marshmallows, raisins, desiccated coconut, dried fruit, cinnamon, lemon or orange zest, sprinkles, chocolate, icing. Butter knives Bowls Wooden spoons Scales Baking trays Baking parchment Oven Computers with access to Excel (optional) Empty biscuit boxes A3 card	0	Toothpicks / cocktail sticks A4 stiff card Materials for making the frame: matchsticks, lolly sticks, toothpicks, straws, card, pipe cleaners, card triangles etc Glue guns Tape Craft materials for cladding: tracing paper, card,	buttons, press studs etc optional) A3 paper Fastenings for children to use, such as: press studs, buttons, tie, velcro Pins Fabric Scissors Thread Needles Fabric glue Decorative items, such as: fabric shapes, sequins,

Year 5 - Equipment list

Mechanical systems option 1: Gears and pulleys			<u>hanical systems option 2: Making a pop-up</u> <u>book</u>	Digital world: Monitoring devices			
0	A ball. Whiteboards and pens.	0	Selection of pop-up books/cards A disassembled mechanism from a greetings card	۵	Computer / laptop/ tablet with internet access		
<u> </u>	Sticky notes. Devices to record on.	0	Colouring pencils A3 card		BBC micro:bits with battery packs or M power coin cell boards and micro:bit		
0	Devices with internet access. A5 thick card.		Scrap card Scissors	۰	cables (optional) Range of building bricks, including flat,		
0	Single-faced corrugated card. A4 double-faced corrugated card.		Glue sticks Paper fasteners / split pins		square, rectangular and other more creative pieces		
0	Extra-long split pins. Normal-length split pins. Modelling dough.		Hole punch Thick / corrugated card Finishing materials, such as: foil, crepe paper,		Computers OR laptops with wired mice		
0	Sticky tack. Paper clips.	-	wobbly-eyes, pipe-cleaners, felt etc.				
0	Thumb tacks. Toothpicks.						
0	Heavy books. Masking tape.						
0	Glue sticks. Hot glue gun.						
0	Quick-drying PVA glue. Scissors.						
0	Thread. Plastic sewing machine bobbins.						

 $Please see the \ \underline{\text{D\&T: Resource and costings sheet}} \ \ \text{and the 'Have ready' section at the start of each lesson plan for more detailed information about quantities and cost.}$

Year 5 - Equipment list continued

Structures: Bridges	Cooking and nutrition: Developing a recipe		<u>Textiles: Designing a</u> <u>stuffed toy</u>			Electrical systems: Doodlers
Single sheets of A4 card		Whiteboards and pens		Homemade toys	*You v	will need to pre-build your own Doodlers before
A weight, such as a toy car		Access to the internet for	۵	A4 paper or card	startii	ng this unit
Piles of books/bricks/blocks about		research		Fabric in different		
10 cm high and 15cm apart		Two beef bolognese sauces for		colours		Simple circuit components: crocodile wires,
Weights to test the strength of		children to taste test (if you have		Pins		AA batteries and holders, DC motors and
the bridge		vegetarians provide similar	۰	Scissors		holders, switches
Glue		examples without meat)	۰	Scraps of fabric		Examples of motorised products, such as:
Scissors		Enlarged photocopy of nutritional		Thread		fan, remote control car, record player
Sticky tape or masking tape		value of each sauce you bought		Needles		(optional)
Paper straws / tubes		Ingredients for bolognese recipes		Needle threaders		Large - sized paper
Spaghetti		Cooker hob		(optional)		Scissors
Glue gun		Chopping boards				Hot-melt glue sticks
Class camera		Peelers				Plasticine
Square rod wood pieces		Vegetable knives				Spare pencils
Lolly sticks / matchsticks		Pans				Masking tape
Saws (preferably tenon saw and		Wooden spoons				Paper cups (varying sizes)
bench hooks)		Graters				Range of drawing implements (wax crayons,
Sandpaper		Garlic crushers				pens, pencils, felt tips)
Files (optional)		Examples of supermarket				Decorative craft items, such as: googly eyes,
PVA glue		bolognese sauce packaging				pom-poms, stickers, sequins etc
Jelutong or Balsa wood		Empty, clean jars				Colouring pencils / pens
		Thin card				
		Adult helpers!				

Year 6 - Equipment list

	Digital world: Navigating the world	Coo	king and nutrition: Come dine with me		Structures: Playgrounds
0	Highlighters Laptops / desktop computers / tablets to access	٠	Laptops / desktop computers / tablets to access the internet	0	A3 card Lolly sticks or toothpicks
	BBC Micro: bit editor through an internet		Access to a printer		Jelutong and/ or dowel
	browser or app		Variety of cookbooks		Tenon saw and bench hooks OR coping saws and
	BBC micro:bits with battery packs or MI power		Ingredients to cook recipes each week		vices
	cell boards and micro:bit cables (optional)		(dependent on recipes chosen)		Card
	Computers or laptops with wired mice		Equipment required to cook recipes each week		Scissors
	A3 card		(dependent on recipes chosen)		Glue guns / PVA
	Flipchart stand (optional)				Straws
	Glue sticks				Pipe cleaners
	Scissors				Foil, egg boxes, cardboard tubes and other junk
	Colouring pencils				modelling materials
	Felt tip pens				Range of materials for the building cladding, such
	Access to a printer				as: foil, tracing paper, elastic bands, plastic bags,
					packaging, newspaper, string/ wool, leaves,
					corrugated card/ plastic etc.
					Papier maché (optional)
					Felt tips
					Paint
					Coloured paper
					Natural materials, such as: twigs, leaves stones,
					tree bark
					Playdough or plasticine
					Sand
				٥	Foil

Year 6 - Equipment list continued