



# Science

## Equipment list

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Some of the items on our science equipment list can now be accessed and used through mobile apps on devices, offering an alternative to traditional methods of data collection (e.g. thermometers, stopwatches, etc).

# Year 1 - Equipment list

<u>Seasonal changes</u>	<u>Everyday materials</u>	<u>Sensitive bodies</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Small tree branches.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Masking tape.</li> <li><input type="checkbox"/> Camera or tablets for recording.</li> <li><input type="checkbox"/> A doll/puppet/teddy bear.</li> <li><input type="checkbox"/> Containers (preferably transparent).</li> <li><input type="checkbox"/> A selection of different thermometers (e.g digital, traditional glass, forehead strips).</li> <li><input type="checkbox"/> Sun lotion and sunglasses (optional).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Materials box (containing items made from a range of materials, e.g. wood, plastic, glass, metal, fabrics).</li> <li><input type="checkbox"/> Hoops for sorting.</li> <li><input type="checkbox"/> Cameras.</li> <li><input type="checkbox"/> Sticky notes (pink and green).</li> <li><input type="checkbox"/> A tea towel.</li> <li><input type="checkbox"/> Selection of textured materials (e.g. corrugated cardboard, foil, bubble wrap, tissue paper, feathers, wool, cotton wool, small pom-poms and glitter.)</li> <li><input type="checkbox"/> Shallow trays (per group of six)</li> <li><input type="checkbox"/> Teaspoon, 5 ml measuring spoon or 5 ml syringe.</li> <li><input type="checkbox"/> Pre-cut material squares from absorbent and non-absorbent materials (e.g. cotton wool, paper towel, fabric, felt, plastic bag, foil, cotton wool).</li> <li><input type="checkbox"/> Selection of clothing.</li> <li><input type="checkbox"/> Plastic cups/yoghurt pots.</li> <li><input type="checkbox"/> Elastic bands.</li> <li><input type="checkbox"/> Paper towels.</li> <li><input type="checkbox"/> Sticky tack.</li> <li><input type="checkbox"/> Materials for testing toughness (e.g. plastic, denim, rubber, silicone, hessian, cotton wool, cardboard, felt, crayon).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Roll of large drawing paper.</li> <li><input type="checkbox"/> Small bag of popcorn.</li> <li><input type="checkbox"/> Blindfolds (e.g. scarves or tea towels).</li> <li><input type="checkbox"/> Connecting cubes.</li> <li><input type="checkbox"/> Everyday objects for a feeling challenge (e.g. feather, seashell, potato).</li> <li><input type="checkbox"/> Food samples for a taste test (e.g. lemon, chocolate).</li> <li><input type="checkbox"/> Disposable gloves for the teacher.</li> <li><input type="checkbox"/> Aromatic items for a smelling test (e.g. coffee, banana, garlic).</li> <li><input type="checkbox"/> Opaque containers with covers.</li> <li><input type="checkbox"/> Clipboards.</li> <li><input type="checkbox"/> Rubber floor markers.</li> <li><input type="checkbox"/> Percussion instrument (e.g. egg shaker).</li> <li><input type="checkbox"/> Items for a listening challenge (e.g. rice, marbles, leaves).</li> </ul>

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# Year 1 - Equipment list

<u>Comparing animals</u>	<u>Introduction to plants</u>	Investigating science through stories
<ul style="list-style-type: none"> <li><input type="checkbox"/> Sorting rings.</li> <li><input type="checkbox"/> Cameras.</li> <li><input type="checkbox"/> Craft materials (e.g. feathers, fur, foil).</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> 'Dear Zoo' storybook by Rod Campbell.</li> <li><input type="checkbox"/> Connecting cubes.</li> <li><input type="checkbox"/> Toilet rolls for making binoculars.</li> <li><input type="checkbox"/> Sticky labels.</li> <li><input type="checkbox"/> Clipboards.</li> <li><input type="checkbox"/> Green fabric (optional).</li> <li><input type="checkbox"/> Chimpanzee toys (optional).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Transparent plastic cups.</li> <li><input type="checkbox"/> Paper towels.</li> <li><input type="checkbox"/> Beans (for planting).</li> <li><input type="checkbox"/> Sticky labels.</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Small watering can (optional).</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Access to outdoor plants including trees.</li> <li><input type="checkbox"/> A selection of flowering plants (with their roots, stems, leaves and flowers in tact).</li> <li><input type="checkbox"/> A camera.</li> <li><input type="checkbox"/> Bean bags.</li> <li><input type="checkbox"/> Clipboards.</li> <li><input type="checkbox"/> A selection of wild and/or garden flowers (optional).</li> <li><input type="checkbox"/> Sorting hoops.</li> <li><input type="checkbox"/> Carrier bags.</li> <li><input type="checkbox"/> Base ten (tens and ones).</li> <li><input type="checkbox"/> A selection of leaves.</li> <li><input type="checkbox"/> Large paper sheets.</li> <li><input type="checkbox"/> Seed packets (cress, pepper, sunflower, morning glory).</li> <li><input type="checkbox"/> Daffodil bulbs.</li> <li><input type="checkbox"/> Snowdrop bulbs.</li> <li><input type="checkbox"/> A selection of fruit and vegetables.</li> </ul>	<p style="text-align: center;"><b>Coming soon!</b></p> <div style="background-color: #e0e0e0; padding: 10px; margin-top: 20px;"> <p>This list does not include equipment which is usually readily available in the classroom (e.g pencils, A4 paper, whiteboards etc.) or the quantity for every item.</p> <p>This information can be found in the <i>Have ready</i> section of each lesson.</p> </div>

## Year 2 - Equipment list

<u>Habitats</u>	<u>Microhabitats</u>	<u>Uses of everyday materials</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Clipboards.</li> <li><input type="checkbox"/> Devices for online research.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> A tray of leaf litter containing minibeasts.</li> <li><input type="checkbox"/> A lidded box with air holes containing leaf litter and three earthworms.</li> <li><input type="checkbox"/> A lidded box with air holes containing leaf litter and 25 woodlice.</li> <li><input type="checkbox"/> An empty 1 litre clear plastic bottle.</li> <li><input type="checkbox"/> Soil (about a third of a litre).</li> <li><input type="checkbox"/> Sand (about a third of a litre).</li> <li><input type="checkbox"/> A trowel/large spoon.</li> <li><input type="checkbox"/> Bug pots with lids.</li> <li><input type="checkbox"/> Medium-sized paintbrushes.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Clipboards.</li> <li><input type="checkbox"/> Petri dishes.</li> <li><input type="checkbox"/> Stopwatches.</li> <li><input type="checkbox"/> Cameras.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> A selection of everyday objects.</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Sorting hoops.</li> <li><input type="checkbox"/> 'The Smartest Giant in Town' story by Julia Donaldson.</li> <li><input type="checkbox"/> High visibility jacket and hard hat (optional).</li> <li><input type="checkbox"/> Modelling dough (A ball of dough per child).</li> <li><input type="checkbox"/> A small dog figurine (optional).</li> <li><input type="checkbox"/> A tray containing mud made from soil and water (optional).</li> <li><input type="checkbox"/> 30 strips of material for testing strength.</li> <li><input type="checkbox"/> Connecting cubes.</li> <li><input type="checkbox"/> Large pile of thick books (e.g. dictionaries, atlases or thesauruses).</li> </ul>

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## Year 2 - Equipment list

<u>Life cycles and health</u>	<u>Plant growth</u>	Plant-based materials
<ul style="list-style-type: none"> <li><input type="checkbox"/> Connecting cubes.</li> <li><input type="checkbox"/> Split pins.</li> <li><input type="checkbox"/> Sticky tack.</li> <li><input type="checkbox"/> Tape measures.</li> <li><input type="checkbox"/> Volunteers from each year group.</li> <li><input type="checkbox"/> A camera for recording (optional).</li> <li><input type="checkbox"/> A5 paper.</li> <li><input type="checkbox"/> A toothbrush.</li> <li><input type="checkbox"/> Soap.</li> <li><input type="checkbox"/> Glitter or a UV pen.</li> <li><input type="checkbox"/> Cleaning wipes.</li> <li><input type="checkbox"/> A stopwatch.</li> <li><input type="checkbox"/> A shopping bag.</li> <li><input type="checkbox"/> Carbohydrates (e.g. potatoes, pasta and bread).</li> <li><input type="checkbox"/> Proteins (e.g. lentils and cooked meat).</li> <li><input type="checkbox"/> Oils and spreads (e.g. butter).</li> <li><input type="checkbox"/> Fruits and vegetables (e.g. grapes and tomatoes).</li> <li><input type="checkbox"/> Dairy and dairy alternatives (e.g. cheese).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Small plant pots (transparent recommended)</li> <li><input type="checkbox"/> Sweet pea seeds.</li> <li><input type="checkbox"/> Compost.</li> <li><input type="checkbox"/> Plastic pipettes.</li> <li><input type="checkbox"/> Spoons.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Access to an outdoor space with flowering plants.</li> <li><input type="checkbox"/> Edible seeds (e.g. sunflower or pumpkin).</li> <li><input type="checkbox"/> Rulers.</li> <li><input type="checkbox"/> Tea towels.</li> <li><input type="checkbox"/> Grass seeds (optional).</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> Cones.</li> </ul>	<p><b>Coming soon!</b></p>

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# Year 3 - Equipment list

<u>Movement and nutrition</u>	<u>Forces and magnets</u>	<u>Rocks and soil</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Hole punches (or sharp pencils and sticky tack).</li> <li><input type="checkbox"/> Split pins.</li> <li><input type="checkbox"/> Dice.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Straws.</li> <li><input type="checkbox"/> Food packaging (ask pupils to bring in and save for lessons 4 and 5).</li> <li><input type="checkbox"/> Calculators.</li> <li><input type="checkbox"/> Paper plates or circles.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Sticky tack.</li> <li><input type="checkbox"/> Table tennis or polystyrene balls.</li> <li><input type="checkbox"/> Paper cups.</li> <li><input type="checkbox"/> Straws.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Sticky tape.</li> <li><input type="checkbox"/> A ball.</li> <li><input type="checkbox"/> Envelopes</li> <li><input type="checkbox"/> 10m tape measure.</li> <li><input type="checkbox"/> Yellow sticky notes.</li> <li><input type="checkbox"/> Blue sticky notes.</li> <li><input type="checkbox"/> Toy cars.</li> <li><input type="checkbox"/> Ramps.</li> <li><input type="checkbox"/> Props for ramps.</li> <li><input type="checkbox"/> Meter rulers.</li> <li><input type="checkbox"/> Materials to put on ramp (e.g. foil, cardboard, bubble wrap, sandpaper, tea towel).</li> <li><input type="checkbox"/> Bar magnets.</li> <li><input type="checkbox"/> Sandwich bags of magnetic and non-magnetic materials (e.g. coins, paper clips, keys, thimbles, nuts and bolts, aluminium foil, copper wire, wooden pencils, plastic rulers, glass marbles, rubbers, paper).</li> <li><input type="checkbox"/> Four different colouring pencils.</li> <li><input type="checkbox"/> Highlighters.</li> <li><input type="checkbox"/> Tablets.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Rock samples.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Devices for online research.</li> <li><input type="checkbox"/> Pumice.</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> Paper towels.</li> <li><input type="checkbox"/> A hammer.</li> <li><input type="checkbox"/> A transparent bowl.</li> <li><input type="checkbox"/> Nails.</li> <li><input type="checkbox"/> Droppers.</li> <li><input type="checkbox"/> White vinegar.</li> <li><input type="checkbox"/> Fossil modelling equipment (e.g. bread, modelling clay, plastic dinosaurs, dinosaur sweets).</li> <li><input type="checkbox"/> Books.</li> <li><input type="checkbox"/> Scissors.</li> <li><input type="checkbox"/> Cereals.</li> <li><input type="checkbox"/> Animal-shaped gummy sweets.</li> <li><input type="checkbox"/> A pestle and mortar.</li> <li><input type="checkbox"/> Soil samples.</li> <li><input type="checkbox"/> Coffee filters.</li> <li><input type="checkbox"/> Plastic cups.</li> <li><input type="checkbox"/> Plastic trays.</li> <li><input type="checkbox"/> Permanent markers.</li> <li><input type="checkbox"/> Large glass jars.</li> </ul>

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# Year 3 - Equipment list

<u>Light and shadows</u>	<u>Plant reproduction</u>	Does hand span affect grip strength?
<ul style="list-style-type: none"> <li><input type="checkbox"/> Glow sticks (or alternative interesting light source such as a light wand or fibre optic light).</li> <li><input type="checkbox"/> 30 cm rulers.</li> <li><input type="checkbox"/> Black bags with random items inside.</li> <li><input type="checkbox"/> Four transparent, sealable bags.</li> <li><input type="checkbox"/> UV-reactive beads or stickers.</li> <li><input type="checkbox"/> Variety of transparent, translucent and opaque materials, including coloured options.</li> <li><input type="checkbox"/> Mirrors.</li> <li><input type="checkbox"/> Reflective (shiny) materials.</li> <li><input type="checkbox"/> Light meter app, data loggers or light meters.</li> <li><input type="checkbox"/> Reflective surfaces (e.g. trays of dyed black water, flexible sheet mirror, metal spoons or metallic pots).</li> <li><input type="checkbox"/> Torches.</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Animal figures.</li> <li><input type="checkbox"/> Connecting cubes.</li> <li><input type="checkbox"/> Plain A3 paper.</li> <li><input type="checkbox"/> Outdoor upright object.</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> A metre ruler.</li> <li><input type="checkbox"/> Sticky tack.</li> <li><input type="checkbox"/> Modelling dough.</li> <li><input type="checkbox"/> Lolly sticks.</li> <li><input type="checkbox"/> Opaque black paper/card.</li> <li><input type="checkbox"/> Sticky tape.</li> <li><input type="checkbox"/> Bulldog clips (optional).</li> <li><input type="checkbox"/> Cardboard packaging.</li> <li><input type="checkbox"/> Straws.</li> <li><input type="checkbox"/> One shadow puppet theatre or a large sheet of white paper/fabric.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Two of the same plant (bean plants or geraniums).</li> <li><input type="checkbox"/> Labels.</li> <li><input type="checkbox"/> Clear plastic bags.</li> <li><input type="checkbox"/> Twist ties.</li> <li><input type="checkbox"/> Flowering plant examples.</li> <li><input type="checkbox"/> Three geraniums.</li> <li><input type="checkbox"/> Measuring cylinder.</li> <li><input type="checkbox"/> Syringe.</li> <li><input type="checkbox"/> Food colouring.</li> <li><input type="checkbox"/> Kitchen paper.</li> <li><input type="checkbox"/> Two beakers.</li> <li><input type="checkbox"/> Two Chrysanthemums.</li> <li><input type="checkbox"/> A knife.</li> <li><input type="checkbox"/> Celery.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Cress seeds.</li> <li><input type="checkbox"/> Cotton wool.</li> <li><input type="checkbox"/> Petri dishes or small dishes.</li> <li><input type="checkbox"/> An opaque box.</li> <li><input type="checkbox"/> Honey.</li> <li><input type="checkbox"/> Floral scent.</li> <li><input type="checkbox"/> Seeds.</li> <li><input type="checkbox"/> Fruit.</li> <li><input type="checkbox"/> Lilies.</li> <li><input type="checkbox"/> Kiwi fruit.</li> <li><input type="checkbox"/> Oranges.</li> <li><input type="checkbox"/> Apples.</li> <li><input type="checkbox"/> Seedless grapes.</li> <li><input type="checkbox"/> Avocado.</li> <li><input type="checkbox"/> Pepper.</li> <li><input type="checkbox"/> Thin card.</li> <li><input type="checkbox"/> Corrugated card.</li> <li><input type="checkbox"/> Plastic bottles.</li> <li><input type="checkbox"/> Tissue paper.</li> <li><input type="checkbox"/> Coloured paper.</li> <li><input type="checkbox"/> Bubble wrap.</li> <li><input type="checkbox"/> Masking tape.</li> <li><input type="checkbox"/> A device for taking photos.</li> <li><input type="checkbox"/> Table knives.</li> </ul>	<p style="text-align: center;"><b>Coming soon!</b></p> <p style="text-align: center;">This list does not include equipment which is usually readily available in the classroom (e.g pencils, A4 paper, whiteboards etc.) or the quantity for every item.</p> <p style="text-align: center;">This information can be found in the <i>Have ready</i> section of each lesson.</p>



# Year 4- Equipment list

<u>Digestion and food</u>	<u>Electricity and circuits</u>	<u>States of matter</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Bread.</li> <li><input type="checkbox"/> Potato masher.</li> <li><input type="checkbox"/> Two large bowls/containers.</li> <li><input type="checkbox"/> Jugs/bottles.</li> <li><input type="checkbox"/> Fruit juice.</li> <li><input type="checkbox"/> Funnel (and tubing, if available).</li> <li><input type="checkbox"/> Resealable freezer bag.</li> <li><input type="checkbox"/> A pair of tights.</li> <li><input type="checkbox"/> A sponge.</li> <li><input type="checkbox"/> A tray or waterproof sheet.</li> <li><input type="checkbox"/> Modelling dough.</li> <li><input type="checkbox"/> Mirrors.</li> <li><input type="checkbox"/> Empty eggshells or whole eggs.</li> <li><input type="checkbox"/> Liquids in cups (juice, cola, coffee, vinegar, water - enough to immerse the shell).</li> <li><input type="checkbox"/> Soft, medium and hard toothbrushes, preferably of the same brand/size.</li> <li><input type="checkbox"/> Toothpaste.</li> <li><input type="checkbox"/> Timers/stopwatches.</li> <li><input type="checkbox"/> Hand lenses.</li> <li><input type="checkbox"/> Whistle.</li> <li><input type="checkbox"/> Plastic hoops.</li> <li><input type="checkbox"/> Tennis balls or beanbags.</li> <li><input type="checkbox"/> Bibs.</li> <li><input type="checkbox"/> Tag rugby bands.</li> <li><input type="checkbox"/> Homemade poo samples (optional- see <i>Lesson 6</i> for ingredients list).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Cups for the whole class.</li> <li><input type="checkbox"/> Two bowls.</li> <li><input type="checkbox"/> 30 wrapped sweets or counting cubes.</li> <li><input type="checkbox"/> An opaque bag or pillowcase.</li> <li><input type="checkbox"/> Circuit kits (including: batteries, wires with and without clips, switches, three bulbs, a buzzer).</li> <li><input type="checkbox"/> Optional: ammeters.</li> <li><input type="checkbox"/> Bare, bendable wire.</li> <li><input type="checkbox"/> Paper clips.</li> <li><input type="checkbox"/> Electrical tape.</li> <li><input type="checkbox"/> Modelling dough or sticky tack.</li> <li><input type="checkbox"/> Range of materials (such as: metal and plastic spoons, foil, wool, metal nails).</li> <li><input type="checkbox"/> Devices with internet access (optional),</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> A selection of materials, including solids, liquids and gases.</li> <li><input type="checkbox"/> A large syringe (end sealed) or empty plastic bottle with lid.</li> <li><input type="checkbox"/> Sealed syringes containing a coloured liquid.</li> <li><input type="checkbox"/> Blue food colouring.</li> <li><input type="checkbox"/> Silicone animal shapes ice cube mould (optional).</li> <li><input type="checkbox"/> Reusable ice cubes (or normal ice cubes).</li> <li><input type="checkbox"/> Plastic trays.</li> <li><input type="checkbox"/> Plastic cups.</li> <li><input type="checkbox"/> Jars with metal lids.</li> <li><input type="checkbox"/> Foil cake cases.</li> <li><input type="checkbox"/> Access to water.</li> <li><input type="checkbox"/> Tongs or spoons.</li> <li><input type="checkbox"/> Thermometers.</li> <li><input type="checkbox"/> A kettle.</li> <li><input type="checkbox"/> Mirrors.</li> <li><input type="checkbox"/> Stopwatches.</li> <li><input type="checkbox"/> An online stopwatch.</li> <li><input type="checkbox"/> PE hoops.</li> <li><input type="checkbox"/> A large, plastic box (optional).</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Tablets.</li> <li><input type="checkbox"/> A spacious area, e.g. playground or sports hall.</li> </ul>

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# Year 4- Equipment list

<u>Sound and vibrations</u>	<u>Classification and changing habitats</u>	How does the flow of liquids compare?
<ul style="list-style-type: none"> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Tuning forks.</li> <li><input type="checkbox"/> Plastic trays.</li> <li><input type="checkbox"/> Rice.</li> <li><input type="checkbox"/> Inflexible plastic rulers.</li> <li><input type="checkbox"/> Rubber bands.</li> <li><input type="checkbox"/> A mixing bowl.</li> <li><input type="checkbox"/> Tablets (or data loggers).</li> <li><input type="checkbox"/> Musical instruments.</li> <li><input type="checkbox"/> Paper cups.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Metal coat hangers.</li> <li><input type="checkbox"/> A skipping rope.</li> <li><input type="checkbox"/> 15 m tape measures.</li> <li><input type="checkbox"/> Metal pan, jar or bottle lids.</li> <li><input type="checkbox"/> Plastic containers.</li> <li><input type="checkbox"/> Glass bottles.</li> <li><input type="checkbox"/> Test materials (insulators and conductors of sound).</li> <li><input type="checkbox"/> Access to water.</li> <li><input type="checkbox"/> An outside space.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Flipchart.</li> <li><input type="checkbox"/> A1 paper.</li> <li><input type="checkbox"/> Green and blue coloured pencils.</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Sticky tack.</li> <li><input type="checkbox"/> Straws.</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> Stapler.</li> <li><input type="checkbox"/> PE hoops.</li> <li><input type="checkbox"/> A pair of binoculars.</li> <li><input type="checkbox"/> Tablets or devices with internet access and camera capabilities.</li> <li><input type="checkbox"/> Access to a hall or outside space</li> <li><input type="checkbox"/> Access to trees.</li> </ul>	<p><b>Coming soon!</b></p>

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# Year 5 - Equipment list

<u>Mixtures and separation</u>	<u>Properties and changes</u>	<u>Earth and space</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Substances (salt, sugar, pepper, sand, soil, flour).</li> <li><input type="checkbox"/> Materials (e.g. coffee filters, pasta, rice, cotton wool, paper towel, pebbles, gravel, face masks, charcoal).</li> <li><input type="checkbox"/> Plastic gold nuggets.</li> <li><input type="checkbox"/> Extra chunky gold glitter.</li> <li><input type="checkbox"/> Metal paper clips.</li> <li><input type="checkbox"/> Iron filings.</li> <li><input type="checkbox"/> Magnet.</li> <li><input type="checkbox"/> 2 litre plastic bottle.</li> <li><input type="checkbox"/> Small plastic bottles.</li> <li><input type="checkbox"/> Gauzes.</li> <li><input type="checkbox"/> Stopwatches.</li> <li><input type="checkbox"/> Thermometers.</li> <li><input type="checkbox"/> Teabags.</li> <li><input type="checkbox"/> Food colouring.</li> <li><input type="checkbox"/> Skittles® or chocolate mini eggs.</li> <li><input type="checkbox"/> Sugar cubes.</li> <li><input type="checkbox"/> Large jugs.</li> <li><input type="checkbox"/> Large mixing bowl.</li> <li><input type="checkbox"/> Large plastic tray.</li> <li><input type="checkbox"/> Tea towels.</li> <li><input type="checkbox"/> Recycled lids.</li> <li><input type="checkbox"/> Colanders.</li> <li><input type="checkbox"/> Sieves.</li> <li><input type="checkbox"/> Plastic and paper cups.</li> <li><input type="checkbox"/> Paper straws.</li> <li><input type="checkbox"/> Plastic spoons.</li> <li><input type="checkbox"/> Paper plates.</li> <li><input type="checkbox"/> PE hoops.</li> <li><input type="checkbox"/> Pompoms</li> <li><input type="checkbox"/> Computers/tablets.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Materials to test and sort according to hardness.</li> <li><input type="checkbox"/> Materials to test and sort according to transparency.</li> <li><input type="checkbox"/> Materials to test according to thermal conductivity.</li> <li><input type="checkbox"/> Materials to melt.</li> <li><input type="checkbox"/> Materials to burn.</li> <li><input type="checkbox"/> Light meter app, data loggers or light meters.</li> <li><input type="checkbox"/> Rulers.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Thermometers.</li> <li><input type="checkbox"/> Timers or stopwatches.</li> <li><input type="checkbox"/> Permanent markers.</li> <li><input type="checkbox"/> Sticky tape.</li> <li><input type="checkbox"/> Tealights.</li> <li><input type="checkbox"/> Candle lighters or long matches.</li> <li><input type="checkbox"/> Heat mat or foil trays of sand.</li> <li><input type="checkbox"/> Foil cupcake cases.</li> <li><input type="checkbox"/> Tongs.</li> <li><input type="checkbox"/> Metal spoon.</li> <li><input type="checkbox"/> A steel wool scouring pad.</li> <li><input type="checkbox"/> Vinegar.</li> <li><input type="checkbox"/> Bicarbonate of soda.</li> <li><input type="checkbox"/> Tablets.</li> <li><input type="checkbox"/> Plastic cups.</li> <li><input type="checkbox"/> Plastic bottles.</li> <li><input type="checkbox"/> Plastic trays.</li> <li><input type="checkbox"/> A jar of water with lid.</li> <li><input type="checkbox"/> A bucket of water.</li> <li><input type="checkbox"/> Safety goggles.</li> <li><input type="checkbox"/> Balloons.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Nails.</li> <li><input type="checkbox"/> Paper clips.</li> <li><input type="checkbox"/> Petroleum jelly.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> Devices for online research.</li> <li><input type="checkbox"/> A large area, such as a hall or playground.</li> <li><input type="checkbox"/> Fruit.</li> <li><input type="checkbox"/> A yoga ball.</li> <li><input type="checkbox"/> Balloons.</li> <li><input type="checkbox"/> Modelling clay.</li> <li><input type="checkbox"/> 15 m tape measures.</li> <li><input type="checkbox"/> Polystyrene balls.</li> <li><input type="checkbox"/> Toothpicks.</li> <li><input type="checkbox"/> Torches.</li> <li><input type="checkbox"/> Permanent markers.</li> <li><input type="checkbox"/> Compasses.</li> <li><input type="checkbox"/> Sticky notes.</li> </ul> <p>Equipment to make sundials:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sundial faces (e.g. paper plate, whiteboard, plastic tray containing sand or PE hoop).</li> <li><input type="checkbox"/> Sundial gnomons (e.g. straw, modelling clay, pen, stick or twig).</li> <li><input type="checkbox"/> Sticky tape or glue.</li> <li><input type="checkbox"/> Numbers representations (e.g. chalk, pens, sticky notes, string, pebbles or shells).</li> <li><input type="checkbox"/> Online timer.</li> </ul>

# Year 5 - Equipment list

<u>Life cycles and reproduction</u>	<u>Unbalanced forces</u>	Human timeline
<ul style="list-style-type: none"> <li><input type="checkbox"/> Fresh mint plants.</li> <li><input type="checkbox"/> Three different types of flower.</li> <li><input type="checkbox"/> Sticky notes.</li> <li><input type="checkbox"/> Calculators.</li> <li><input type="checkbox"/> 30 cm rulers.</li> <li><input type="checkbox"/> Paper towels.</li> <li><input type="checkbox"/> A selection of pencils (including red pencils).</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> Whiteboards and pens.</li> <li><input type="checkbox"/> A die.</li> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Plastic water bottle.</li> <li><input type="checkbox"/> Access to water.</li> <li><input type="checkbox"/> A sensitive scale.</li> <li><input type="checkbox"/> Online timer.</li> <li><input type="checkbox"/> Tablets.</li> <li><input type="checkbox"/> A large space (e.g. a playground, field or hall).</li> <li><input type="checkbox"/> Equipment to represent nests (e.g. school jumpers, cardboard, PE hoops).</li> <li><input type="checkbox"/> Equipment to represent eggs (e.g. balls, balloons, pencil cases).</li> <li><input type="checkbox"/> Equipment to represent food (e.g. short lengths of string, pencils, plastic insect toys or sweets).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> A large outside space (e.g. playground).</li> <li><input type="checkbox"/> A large, open space with a smooth floor, such as a sports hall.</li> <li><input type="checkbox"/> Marshmallows.</li> <li><input type="checkbox"/> Chalk.</li> <li><input type="checkbox"/> Highlighters.</li> <li><input type="checkbox"/> Masking tape.</li> <li><input type="checkbox"/> Whiteboards and pens (one each).</li> <li><input type="checkbox"/> Elastic bands.</li> <li><input type="checkbox"/> Paper clips.</li> <li><input type="checkbox"/> A hot glue gun (for the teacher's use only).</li> <li><input type="checkbox"/> Balloons.</li> <li><input type="checkbox"/> Lolly sticks.</li> <li><input type="checkbox"/> String.</li> <li><input type="checkbox"/> Modelling dough.</li> <li><input type="checkbox"/> Large, sturdy paper cups.</li> <li><input type="checkbox"/> Smaller, light paper cups.</li> <li><input type="checkbox"/> 2 litre plastic bottles.</li> <li><input type="checkbox"/> Empty plastic food containers.</li> <li><input type="checkbox"/> Plastic trays.</li> <li><input type="checkbox"/> Straws.</li> <li><input type="checkbox"/> Wooden skewers.</li> <li><input type="checkbox"/> Three different-sized coffee filters..</li> <li><input type="checkbox"/> Small balls (e.g. table tennis).</li> <li><input type="checkbox"/> A hammer.</li> <li><input type="checkbox"/> A floaty feather.</li> <li><input type="checkbox"/> Rulers.</li> <li><input type="checkbox"/> 1 metre rulers.</li> <li><input type="checkbox"/> Tape measures (15 m)</li> <li><input type="checkbox"/> Stopwatches.</li> <li><input type="checkbox"/> Calculators.</li> <li><input type="checkbox"/> Online timer.</li> <li><input type="checkbox"/> Device with internet access.</li> <li><input type="checkbox"/> Device for taking photographs.</li> </ul>	<p><b>Coming soon!</b></p>
		<p><b>Does the size of an asteroid affect its impact strength?</b></p>
		<p><b>Coming soon!</b></p>

This list does not include equipment which is usually readily available in the classroom (e.g pencils, A4 paper, whiteboards etc.) or the quantity for every item.

This information can be found in the *Have ready* section of each lesson.

# Year 6 - Equipment list

<u>Classifying big and small</u>	<u>Light and reflection</u>	<u>Evolution and inheritance</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Magnifying glasses.</li> <li><input type="checkbox"/> Clay or playdough.</li> <li><input type="checkbox"/> Jars or plastic cups.</li> <li><input type="checkbox"/> Craft materials.</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Cardboard tubes.</li> <li><input type="checkbox"/> Small objects, such as coins or dice.</li> <li><input type="checkbox"/> Short lengths of hose or opaque tubing.</li> <li><input type="checkbox"/> Torches (preferably with a single bulb).</li> <li><input type="checkbox"/> A6-size card with holes pierced through.</li> <li><input type="checkbox"/> Bulldog clips (optional).</li> <li><input type="checkbox"/> Mini whiteboards.</li> <li><input type="checkbox"/> 30 cm rulers.</li> <li><input type="checkbox"/> Mirrors.</li> <li><input type="checkbox"/> String or ribbon.</li> <li><input type="checkbox"/> Toys with eyes, such as teddy bears or dolls.</li> <li><input type="checkbox"/> Plain glass filled with water (optional).</li> <li><input type="checkbox"/> Arrow drawn on paper in marker pen (optional).</li> <li><input type="checkbox"/> Coloured acetate (or cut up coloured translucent folders).</li> <li><input type="checkbox"/> Football or other simple-shaped object.</li> <li><input type="checkbox"/> Opaque black card or paper.</li> <li><input type="checkbox"/> Lolly sticks.</li> <li><input type="checkbox"/> Modelling clay.</li> <li><input type="checkbox"/> Assorted shaped objects.</li> <li><input type="checkbox"/> Protractors.</li> <li><input type="checkbox"/> Large plastic bottle filled with water (optional).</li> <li><input type="checkbox"/> Something to pierce a hole in the bottle (optional).</li> <li><input type="checkbox"/> Laser pointer (optional).</li> <li><input type="checkbox"/> Bucket or container to catch the stream of water (optional).</li> <li><input type="checkbox"/> Fibre optic light (optional).</li> <li><input type="checkbox"/> Glue dots or double-sided tape.</li> <li><input type="checkbox"/> Cuboid cardboard packaging (Adaptive teaching).</li> <li><input type="checkbox"/> Screens to divide the classroom (optional).</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Sticky notes (including green ones).</li> <li><input type="checkbox"/> Dice.</li> <li><input type="checkbox"/> Trays.</li> <li><input type="checkbox"/> Shallow containers or dishes (such as petri dishes).</li> <li><input type="checkbox"/> Differently-sized or shaped tweezers.</li> <li><input type="checkbox"/> Stopwatches.</li> <li><input type="checkbox"/> Dried rice.</li> <li><input type="checkbox"/> Different dried foods such as pasta, lentils or cake sprinkles (optional).</li> </ul>

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## Circuits, batteries and switches

- A range of batteries (including different sizes of 1.5 V button cell batteries, 3V button cell batteries, AAA, AA, C, D, 9V and a camera battery).
- Cups for the whole class.
- Two bowls.
- 30 wrapped sweets or counting cubes.
- Chalk (optional).
- Sticky tack.
- Rulers.
- Circuit kits (including: 4 cells/batteries, 5 wires with and without clips, switches, 5 bulbs, a buzzer).
- Ammeters (one for the teacher; optional for the class).
- Motors (teacher demonstration).
- Whiteboards and pens.
- Dice.
- Tricky circuit building kit (optional - 9V battery, paper, LED, 6B or 8B graphite pencil, copper tape or foil, a paper clip).
- A camera for recording (optional).
- Large space such as a playground or hall.
- Large hoops.
- Calculators.
- Devices with internet access.
- Short lengths of cardboard tube.
- Data loggers or light meters to record light intensity/brightness in lux (apps on devices would also work).
- One data logger or decibel meter to measure volume, or decibel app on a device (teacher demonstration).
- Equipment for practical circuit building to be shared (tin foil, sticky tape, double-sided tape, paper clips, sharp pencils and modelling dough).
- Equipment for building a greetings card (A4 white card, colouring pencils or pens, 2 cells, a buzzer or bulb/LED, wires, optional copper tape, a switch).
- Equipment for building a burglar alarm (thick card from a box, tin foil, cells, a buzzer and a bulb, wires).
- Equipment for building a dog's push button (sponge, split pins, thin cardboard, cells, wires, a buzzer and a bulb).
- Equipment for building a water butt alarm (milk bottle lids, a jar or small bucket, tin foil, lolly sticks or similar, modelling dough or sticky tack, cells, wires, a buzzer and a bulb).

## Circulation and health

- Lab coat and stethoscope (optional).
- Whiteboards and pens.
- Counters and dice for a board game (optional).
- Modelling the circulatory system (2 large red hoops; 2 large blue hoops; 1 large hoop of another colour; chalk for drawing on the ground; 5 bowls or containers; at least 30 red beanbags, balls or pieces of card; at least 30 blue beanbags, balls or pieces of card; at least 20 beanbags, balls or pieces of card in green and yellow).
- Modelling blood (small, transparent bottle or tube with a lid; cooking oil to fill container halfway; red liquid food colouring; white mini marshmallows or beads; small chopped up pieces of light-coloured paper; teaspoons of sugar and salt; some water; mixture of small beads or cake sprinkles).
- Sticky notes.
- Devices for internet research.
- Calculators (optional).
- Sticky tack.
- Pulsometers, data loggers or smart watches for measuring heart rate (optional).
- Stop watches.
- Graph paper (optional).
- Rulers.

## **Are some sunglasses safer than others?**

**Coming soon!**

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