



Equipment list

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Some items on the Science equipment list can now be accessed and used through apps downloaded to devices, offering an alternative to traditional data collection methods (for example, thermometers, stopwatches, light metres, etc.).

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EYFS (Reception): Equipment list

Animal adventures	I am a scientist - coming soon!	Our beautiful planet - coming soon!
 Sorting hoops. Objects for sorting living and non-living things (e.g. a potted plant, an insect in a lidded box, a seed, a water bottle, etc). Device for taking photos. Lidded box with breathing holes to collect minibeasts. 'What the ladybird heard' storybook by Julia Donaldson. Small world farm animals. Building equipment for making animal pens (e.g. wooden blocks, plastic blocks or magnetic tiles). 'Dear zoo' storybook by Rod Campbell. Eight small world animals to represent the animals in the 'Dear zoo' storybook (see Lesson 5 for an alternative resource if needed). 		

Changing seasons - coming soon!

Autumn

Lesson 1

- Sorting hoops.
- Objects for sorting living and non-living things (e.g. a potted plant, an insect in a lidded box, a seed, a water bottle, etc).
- Device for taking photos.

Lesson 2 - coming soon!

Year 1: Equipment list

Seasonal changes		Everyday materials		Sensitive bodies
Small tree branches (one between four). Strips of white card (one each). A4 card (white, grey, blue and yellow). String. Masking tape. 1 doll, puppet or teddy bear. Suncream and sunglasses (optional). Sticky notes. Poster paints (light pink, light green, dark green, red, orange, yellow and brown). Paint trays. 3 containers (preferably transparent). A selection of different thermometers e.g. digital, traditional glass and forehead strips). 4 thermometers. Devices for recording video (one between two).		Materials box with 30 everyday objects made from various materials (wood, plastic, glass, metal, rock and fabric). 6 PE hoops. 1 camera or device for taking photos. Sticky notes (pink and green). 1 tea towel. Textured materials (e.g. corrugated cardboard, foil, bubble wrap, tissue paper, feathers, wool, small pom-poms and glitter). Shallow trays (one between six). Teaspoons, 5 ml measuring spoons or 5 ml syringes (one between six). Pre-cut squares of absorbent, non-absorbent, waterproof and non-waterproof materials (e.g. cotton wool, paper towel, fabric, felt, plastic bag, foil, greaseproof paper and cling film). Selection of clothing.		Roll of large drawing paper the size of a child (one between three). 1 small bag of popcorn. Blindfolds (e.g. a scarf or tea towel). Connecting cubes (approximately 30 between six). Cardboard box (one for a feely box). Everyday objects for a feeling challenge (e.g. feather, seashell, potato, key and coin). Rubber gloves (one pair). Sweet, salty, bitter and sour food samples for tasting (e.g. sweets, crisps, spinach and lemon). Disposable gloves (one for the teacher). 6 aromatic items for a smelling test (e.g. coffee, banana, garlic, toothpaste and spices). 12 opaque containers covered with fabric.
	<u> </u>	Plastic cups or yoghurt pots (one each).	<u> </u>	Clipboards (one each).
		Elastic bands (one each).		Rubber floor markers or beanbags (one each).
		Paper towels.		1 percussion instrument (e.g. egg shaker).
		Sticky tack.		6 opaque pots with lids.
		Materials for testing toughness (e.g. plastic, denim, rubber, silicone, hessian, cotton wool, cardboard, felt and crayon).		6 items for a listening challenge (e.g. rice, marbles, leaves and coins).

This list does not include equipment usually available in the classroom (e.g. scissors, rulers, plain paper, whiteboards, etc.).

See the Have ready section of each lesson for the complete equipment list, including amounts.

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Year 1: Equipment list

Comparing animals	Introduction to plants	Investigating Science through stories
5 PE hoops. 1 camera or device for taking photos Craft materials (e.g. feathers, fur, foil, felt and coloured paper). Sticky notes (two different colours). 'Dear Zoo' storybook by Rod Campbell. Connecting cubes of different colours. Toilet rolls to make binoculars (two each). Craft materials to decorate binoculars. Masking tape. Sticky labels (one each). Clipboards (one each). Green fabric (optional). Chimpanzee toys (optional).	Devices for taking photos (one between two). Transparent plastic cups (one each). Beans (for planting - one each). Sticky labels (one each). Sticky notes. Small watering can (optional). A selection of at least 15 flowering plants (with their roots, stems, leaves and flowers intact). Magnifying glasses (one between two). Devices for recording video (one between four). Access to an outdoor space with plants, including trees. Clipboards (one each). A selection of wild and garden flowers (optional). 2 PE hoops. Carrier bags (one between two). Base ten (tens and ones). A selection of leaves (evergreen and deciduous). Large paper sheets (optional - eight to ten). Devices with a tree identification app (optional). Seed packets (cress, pepper, sunflower and morning glory). Daffodil and snowdrop bulbs (a few for observation). Compost (optional). 6 different fruits and vegetables (e.g. carrots, lettuce, celery, peas and apples).	 'The Oak Tree' by Julia Donaldson. 'The Gruffalo' by Julia Donaldson. Wool or string in three different colours. Tape measures (optional). Clipboard (one for the teacher). Devices with internet access (optional one between two). Magnifying glasses (optional - one between two). Natural materials for building small animal homes (e.g. sticks, leaves, moss and bark). 1 small plastic animal figure (e.g. a mouse). Pine cones (with open scales - one each). 10 ripe bananas. Oats, seeds and dried fruit or wild bird seed (one cup between six). String. Dice (optional - one between two).

Year 2: Equipment list

<u>Habitats</u>		<u>Microhabitats</u>		Uses of everyday materials
Habitats 1 device for recording video (optional). Clipboards (one each). Sticky tack. Devices for with internet access (one between two).		A tray of leaf litter containing minibeasts. 1 camera or device for taking photos. Opaque lidded box with air holes containing leaf litter and three earthworms. 1 clear, litre plastic bottle. Soil (approximately a third of a litre). Sand (approximately a third of a litre). Leaf litter (a handful). 1 trowel or large spoon. 1 A3 sheet of black paper or card. Sticky tape. Bug pots with lids (one between two). Medium-sized paintbrushes (one between two). Magnifying glasses (one between two). Clipboards (one each).		Uses of everyday materials 'The Smartest Giant in Town' by Julia Donaldson. 2 PE hoops. A selection of everyday objects made from wood, metal, glass, plastic and fabric (e.g. bottle, chopping board, plant pot and bag). High visibility jacket, hard hat and clipboard (optional - one for the teacher). Modelling dough (one small ball each). 1 camera or device for taking photos. A selection of everyday object to test (e.g. rubber bands, paper clips, rubbers and sponges). 1 small dog figurine (optional). 1 tray containing mud (optional). 30 strips of material for testing strength (e.g. rubber bands, wool, balloons and cotton). Connecting cubes (approximately ten each). Thick books (e.g. dictionaries, atlases or
	0 0 0	Lidded box with air holes containing leaf litter and 25 woodlice. Petri dishes (one between six). Stopwatches (one between two). Paper towels.	J	thesauruses - six between two).

Year 2: Equipment list

Life cycles and health	Plant growth	Plant-based materials
Connecting cubes. Split pins (one each). Sticky tack (small ball between two). Tape measures (one between five) Volunteers from each year group for the children to measure height. Toothbrush and soap (to show the children). Glitter or a UV pen (one for the teacher). Cleaning wipes. Stopwatch (one for the teacher). 1 shopping bag. A selection of foods from each food group (e.g, potatoes, pasta, bread, lentils, cooked meat, butter, grapes, tomatoes and cheese).	Small transparent cups or plant pots (one each). Sweet pea seeds (one each). 1 bag of compost. Plastic pipettes (one per table). Spoons (one per table). Daffodil bulbs (one half between two). Magnifying glasses (one between two). Edible seeds (e.g. sunflower or pumpkin). Base ten (optional). 3 tea towels. Access to an outdoor space with plants (optional). Chalk (one between five). Cones (approximately 12).	Materials for sorting (bottle tops, yoghurt pots, egg cartons, socks, t-shirts and plastic bottles - one of each per table). Natural materials (e.g. wool, cotton, wooden toys, rubber balloons and clay pots). Human-made materials (e.g. polyester clothing, plastic bottles, nylon rope and acrylic paint). Materials to testing (newspaper, card, bubble wrap, natural fabric, tin foil and hard plastic - one small piece of each between four). Measuring cylinders or pipettes (one between four). Materials to make pots (newspaper, bubble wrap, tin foil, fabric - one A3 sized example of each between four). Cylindrical objects (e.g. pencil pots - one between four). 1 bag of compost. A3 sheets of newspaper (one each). Spoons (one between four). Sunflower seeds (one each). 1 camera or device for taking photos.

Year 3: Equipment list

Movement and nutrition	Forces and magnets	Rocks and soil
 Hole punches or sharp pencils and modelling dough (one per table). Split pins (eight each). Sticky notes. Large piece of backing paper (optional). Dice (one between three). A4 card (one between two). String. Straws (approximately 75). Sticky tape. Food packaging (e.g. crisp packets, empty boxes of biscuits and juice cartons). Paper plates or circles drawn on A4 paper (one each). 	 Modelling dough (one ball for the teacher). Sticky tack. Table tennis or small balls (one between two). Paper cups (one between two). String. Sticky tape. Envelopes (one each). Large space with a shiny floor (e.g. school hall). 10 m tape measure (one for the teacher). Sticky notes (yellow and blue). Plastic bottle caps (one plain and one with sandpaper on the bottom between three). Toy cars (one between three). Ramps (one between three). Props for ramps (one between three). Warious materials to put on ramps to investigate friction (e.g. foil, cardboard, bubble wrap, sandpaper, tea towel). Bar magnets (one each). Devices to take photographs (one between two). Sandwich bags of magnetic and non-magnetic materials (e.g. coins, keys, bolts, aluminium foil, copper wire and marbles - one between two). 	 □ A class set of rock samples. □ Magnifying glasses (one between three). □ 1 sample of pumice and chalk. □ 1 hammer. □ 1 transparent bowl. □ Nails (one between three). □ Droppers (two between three). □ White vinegar. □ Devices for video recording (one between three). □ Fossil modelling equipment (e.g. bread, modelling clay, plastic dinosaurs, dinosaur sweets, small plastic bones, craft glue and sand). □ Rock samples with fossils (optional). □ Books (a small pile between three). □ 3 different cereals. □ Animal-shaped gummy sweets. □ 1 pestle and mortar. □ Class soil samples of clay, sandy, peaty and loam. □ Coffee filters (one each). □ Plastic cups (one each). □ Plastic trays (one between four). □ Large glass jars with lids (one between two).

Year 3: Equipment list

 Interesting light source (e.g. glow sticks, light wand or fibre optic light). Black bags with random items (one per table). 4 transparent bags containing UV reactive beads or stickers (one covered in tissue paper, one in thick fabric and one in suncream). Mirrors (one between two). Devices with a light meter app (or data loggers/light meters). Reflective surfaces (e.g. trays of dyed black water, flexible sheet mirror, tin foil, metal spoons and metallic pots). Torches (one between two). A variety of energy of transparent and translation. 2 of the same plants (bean plants or geraniums). Clear plastic bags and twist ties (enough to cover the leaves of one of the plants). Flowering plant examples (one per table). Measuring cylinders (one per table). Food colouring. Kitchen paper. Beakers or glasses (one between two). 2 Chrysanthemum flower stems (preferably white). Sticks of celery (one between two). Magnifying glasses (one per table). 	oes hand span affect grip strength?
A variety of opaque, transparent and translucent materials (e.g. denim, felt, coloured acetate, tissue paper, clear acetate and cling film). Sticky notes. Animal figures (selection per table). Connecting cubes. Upright object, chalk and metre ruler (to measure shadows outdoors). Modelling dough (small ball between two). Lolly sticks (one between two). Opaque black paper or card. Straws (approximately two each). Bulldog clips (optional - one each). Sticky tape. Cardboard or cardboard packaging. 1 shadow puppet theatre with a large sheet of white fabric and lamp or torch. Table knives (one per table). Cress seeds (between 20 to 40). 2 cotton wool pads. 2 petri dishes or small dishes. 1 opaque mystery box with items related to flowers (e.g. honey, a floral scent, seeds and fruit). Lilies (one flower per table). d different fruits, (e.g. kiwi, oranges, apples, seedless grapes, avocado and pepper - three of each). Junk modelling materials (e.g. thin and corrugated card, plastic bottles, tissue paper, coloured paper and bubble wrap). Masking tape. 1 camera or device for taking photos.	Metre rulers. Pegs (one each). 1 cm square paper (optional). String. Metre rulers (one between three). 6 different-sized fruits (e.g. grape, apple, orange, grapefruit, cantaloupe, watermelon - three class sets). 1 calculator. Materials (tin foil, paper, bubble wrap, wood and glass - one sample between three). Different types of gloves rubber, wool, leather, medical, gardening and oven gloves). Sticky tape. Split pins (two each). Sharp pencils and modelling dough (to pierce holes - one between four). Skewers (four each). Calculator (one for the teacher).

Year 4- Equipment list

Digestion and food	Electricity and circuits	States of matter
 □ Bread. □ Potato masher. □ Two large bowls/containers. □ Jugs/bottles. □ Fruit juice. □ Funnel (and tubing, if available). □ Resealable freezer bag. □ A pair of tights. □ A sponge. □ A tray or waterproof sheet. □ Modelling dough. □ Mirrors. □ Empty eggshells or whole eggs. □ Liquids in cups (juice, cola, coffee, vinegar, water enough to immerse the shell). □ Soft, medium and hard toothbrushes, preferably of the same brand/size. □ Toothpaste. □ Timers/stopwatches. □ Hand lenses. □ Whistle. □ Plastic hoops. □ Tennis balls or beanbags. □ Bibs. □ Tag rugby bands. □ Homemade poo samples (optional- see Lesson 6 for ingredients list). 	 □ Cups for the whole class. □ Two bowls. □ 30 wrapped sweets or counting cubes. □ An opaque bag or pillowcase. □ Circuit kits (including: batteries, wires with and without clips, switches, three bulbs, a buzzer). □ Optional: ammeters. □ Bare, bendable wire. □ Paper clips. □ Electrical tape. □ Modelling dough or sticky tack. □ Range of materials (such as: metal and plastic spoons, foil, wool, metal nails). □ Devices with internet access (optional), 	 □ A selection of materials, including solids, liquids and gases. □ A large syringe (end sealed) or empty plastic bottle with lid. □ Sealed syringes containing a coloured liquid. □ Blue food colouring. □ Silicone animal shapes ice cube mould (optional). □ Reusable ice cubes (or normal ice cubes). □ Plastic trays. □ Plastic cups. □ Jars with metal lids. □ Foil cake cases. □ Access to water. □ Tongs or spoons. □ Thermometers. □ A kettle. □ Mirrors. □ Stopwatches. □ An online stopwatch. □ PE hoops. □ A large, plastic box (optional). □ Sticky notes. □ Whiteboards and pens. □ Tablets. □ A spacious area, e.g. playground or sports hall.

Year 4- Equipment list

Sound and vibrations	Classification and changing habitats	How does the flow of liquids compare?
Whiteboards and pens. Tuning forks. Plastic trays. Rice. Inflexible plastic rulers. Rubber bands. A mixing bowl. Tablets (or data loggers). Musical instruments. Paper cups. String. Metal coat hangers. A skipping rope. 15 m tape measures. Metal pan, jar or bottle lids. Plastic containers. Glass bottles. Test materials (insulators and conductors of sound). Access to water. An outside space.	 □ Whiteboards and pens. □ Flipchart. □ A1 paper. □ Green and blue coloured pencils. □ Sticky notes. □ Straws. □ Chalk. □ Stapler. □ PE hoops. □ A pair of binoculars. □ Tablets or devices with internet access and camera capabilities. □ Access to a hall or outside space □ Access to trees. 	 Examples of solids (e.g. a rubber, a marble, a metal pencil sharpener, etc.). Examples of liquids in plastic cups (water, milk, vinegar, vegetable oil, cream, maple syrup, honey, double cream and washing-up liquid). An example of a gas (a balloon labelled as 'air'). Plastic or paper bowl filled with water. Plastic toy animals. Sunflower oil mixed with black food colouring. Cleaning materials (sponges, paper towels, cotton wool, washing up liquid, droppers or spoons). Food colouring. Plastic trays. Yellow sticky notes. Highlighters. Permanent marker. Plastic pipette droppers. Paper towels. Poster paper. A flipchart. Books. Stopwatches. An online timer. Calculators. A device that can record slow-motion video.

Year 5 - Equipment list

	Mixtures and separation		Properties and changes		Earth and space
00 0000000000	Substances (salt, sugar, pepper, sand, soil, flour). Materials (e.g. coffee filters, pasta, rice, cotton wool, paper towel, pebbles, gravel, face masks, charcoal). Plastic gold nuggets. Extra chunky gold glitter. Metal paper clips. Iron filings. Magnet. 2 litre plastic bottle. Small plastic bottles. Gauzes. Stopwatches. Thermometers. Teabags. Food colouring.		Materials to test and sort according to hardness. Materials to test and sort according to transparency. Materials to test according to thermal conductivity. Materials to melt. Materials to burn. Light meter app, data loggers or light meters. Magnifying glasses. Thermometers. Timers or stopwatches. Permanent markers. Sticky tape. Tealights. Candle lighters or long matches. Heat mat or foil trays of sand. Foil cupcake cases.	000000000000	Whiteboards and pens. Devices for online research. A large area, such as a hall or playground. Fruit. A yoga ball. Balloons. Modelling clay. 15 m tape measures. Polystyrene balls. Toothpicks. Torches. Permanent markers. Compasses. Sticky notes.
000000000000000	Skittles® or chocolate mini eggs. Sugar cubes. Large jugs. Large mixing bowl. Large plastic tray. Tea towels. Recycled lids. Colanders. Sieves. Plastic and paper cups. Paper straws. Plastic spoons. Paper plates. PE hoops. Pompoms Computers/tablets.	0000000000000000000	Tongs. Metal spoon. A steel wool scouring pad. Vinegar. Bicarbonate of soda. Tablets. Plastic cups. Plastic bottles. Plastic trays. A jar of water with lid. A bucket of water. Safety goggles. Balloons. String. Nails. Paper clips.	Equip	Sundial faces (e.g. paper plate, whiteboard, plastic tray containing sand or PE hoop). Sundial gnomons (e.g. straw, modelling clay, pen, stick or twig). Sticky tape or glue. Numbers representations (e.g. chalk, pens, sticky notes, string, pebbles or shells). Online timer.

Year 5 - Equipment list

	Life cycles and reproduction	<u>Unbalanced forces</u>	Human timeline
000000000000	Fresh mint plants. Three different types of flower. Sticky notes. Calculators. 30 cm rulers. Paper towels. A selection of pencils (including red pencils). Chalk. Whiteboards and pens. A die. Magnifying glasses.	 A large outside space (e.g. playground). A large, open space with a smooth floor, such as a sports hall. Marshmallows. Chalk. Highlighters. Masking tape. Whiteboards and pens (one each). Elastic bands. Paper clips. A hot glue gun (for the teacher's use only). Balloons. 	 Metre ruler. Rulers, ideally transparent/translucent. A childhood photo of a well-known adult in the school (optional). Photos of the class as babies or younger children (optional). Sticky notes. Graph paper (optional). Devices with internet access (optional).
	Plastic water bottle. Access to water. A sensitive scale. Online timer. Tablets. A large space (e.g. a playground, field or hall). Equipment to represent nests (e.g. school jumpers, cardboard, PE hoops). Equipment to represent eggs (e.g. balls, balloons, pencil cases). Equipment to represent food (e.g. short lengths of string, pencils, plastic insect toys or sweets).	□ Balloons. □ Lolly sticks. □ String. □ Modelling dough. □ Large, sturdy paper cups. □ Smaller, light paper cups. □ 2 litre plastic bottles. □ Empty plastic food containers. □ Plastic trays. □ Straws. □ Wooden skewers. □ Three different-sized coffee filters □ Small balls (e.g. table tennis). □ A hammer. □ A floaty feather. □ Rulers. □ 1 metre rulers. □ Tape measures (15 m) □ Stopwatches. □ Calculators. □ Online timer. □ Device with internet access. □ Device for taking photographs.	Does the size of an asteroid affect its impact strength? Model asteroids made from ice, basalt/granite and aluminium foil. Modelling dough. Sand. Trays. Metre rulers. Adigital scales. Magnifying glasses. A device that can record video. An airtight container.

Year 6 - Equipment list

Classifying big and small	<u>Light and reflection</u>	Evolution and inheritance
Magnifying glasses. Clay or playdough. Jars or plastic cups. Craft materials.	 □ Cardboard tubes. □ Small objects, such as coins or dice. □ Short lengths of hose or opaque tubing. □ Torches (preferably with a single bulb). □ A6-size card with holes pierced through. □ Bulldog clips (optional). □ Mini whiteboards. □ 30 cm rulers. □ Mirrors. □ String or ribbon. □ Toys with eyes, such as teddy bears or dolls. □ Plain glass filled with water (optional). □ Arrow drawn on paper in marker pen (optional). □ Coloured acetate (or cut up coloured translucent folders). □ Football or other simple-shaped object. □ Opaque black card or paper. □ Lolly sticks. □ Modelling clay. □ Assorted shaped objects. □ Protractors. □ Large plastic bottle filled with water (optional). □ Something to pierce a hole in the bottle (optional). □ Something to pierce a hole in the stream of water (optional). □ Bucket or container to catch the stream of water (optional). □ Fibre optic light (optional). □ Glue dots or double-sided tape. □ Cuboid cardboard packaging (Adaptive teaching). □ Screens to divide the classroom (optional). 	 Sticky notes (including green ones). Dice. Trays. Shallow containers or dishes (such as petri dishes). Differently-sized or shaped tweezers. Stopwatches. Dried rice. Different dried foods such as pasta, lentils or cake sprinkles (optional).

Circuits, batteries and switches		Circulation and health	
	range of batteries (including different sizes of 1.5 V button cell batteries, 3V button cell batteries, AAA, A, C, D, 9V and a camera battery). ups for the whole class. vo bowls. wrapped sweets or counting cubes. ualk (optional). cky tack. ulers. recuit kits (including: 4 cells/batteries, 5 wires with and without clips, switches, 5 bulbs, a buzzer). nemeters (one for the teacher; optional for the class). otors (teacher demonstration). hiteboards and pens. ce. cky circuit building kit (optional - 9V battery, paper, LED, 6B or 8B graphite pencil, copper tape or foil, a per clip). camera for recording (optional). rge space such as a playground or hall. rge hoops.	0000	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.
000000 0 00 0	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).	0 0 0 0	

Are some sunglasses safer than others?
Sticky notes. A range of 5-10 sunglasses labelled with different letters, preferably with differently shaded and coloured lenses. Components to make an electrical circuit with a bulb. Data loggers, light meters or devices with an app to record light intensity/brightness in lux. Short cardboard tubes (optional). A3 paper. Stopwatches. Graph paper. Rulers. UV reactive beads or stickers. UV torch (optional). Access to direct sunlight. Trays for equipment. Devices to take photographs and record.