

Topic 1 – Who am I?

- Plastic disposable apron for each child
- Pens to draw on aprons
- Bone-shaped dog biscuits
- Books and posters to research skeletons
- Sticky notes
- Copy of *Funnybones* by Janet and Allan Ahlberg
- Easi-Scope digital microscope and/or hand lenses
- Large-scale display or outline of human body
- Chalk or other removable marker for drawing on floor or playground
- Collection of scented items, including less popular smells
- A range of containers
- Elastic bands
- Fabric such as muslin or curtain net
- A range of items e.g. apple, bath oil, lime, onion, vinegar, lemon, garlic, etc.
- Old clean socks
- Herb plants
- Dried herbs
- Counters
- Camera
- Access to flowers and plants
- Food for tasting
- Large outline of pictogram
- Pictures of different foods
- Small pots
- Blindfolds
- Mirrors
- Drawing materials and/or outlines of the eye for labelling
- Photographs of various objects
- A set of skittles/plastic drinks bottles
- Marker pens
- Large blanket
- Objects with a range of textures or that make sounds
- Pictures of animals
- Pictures of the same animals showing just their eyes
- A range of objects to memorise
- Optical equipment – magnifying glass, binoculars and telescope
- Samples of materials e.g. shaving cream, rock, jelly, sandpaper, cotton wool
- A range of fabrics or materials with different textures
- Materials to make a headband with big ears
- A set of small opaque containers with lids containing a range of materials e.g. feathers, buttons, pasta and pieces of fabric

Topic 2 – Celebrations

- Candles/torches
- Tray of sand
- Material to create dark area of classroom
- Objects to cast shadows
- Puppets
- Mirrors
- Musical instruments
- Bottle tops and cardboard
- Greaseproof paper
- Elastic bands
- Cylinder
- Ice cube trays
- Metal and wooden beaters
- Empty containers made from different materials
- Drumsticks
- Fruit, seeds, bark, flowers, leaves – various parts of plants
- Orange
- Red ribbon
- Assorted sweets (not hard boiled)
- Cocktail sticks
- Cloves

Topic 3 – Polar places

- Access to Google Earth
- Pictures of different areas on earth
- Clothing collection (summer and winter)
- Packets of dried food, tinned and fresh food
- Rucksacks
- Camping equipment
- Question stem cards
- A range of different fabrics (warm and cool)
- Plastic animals or photographs of animals
- Three baskets
- Labels
- Models of animals
- Camouflage paper
- Timing device
- Globe
- Camera
- Microphone
- Photographs of polar explorers
- Soft toy animal collections
- Photographs of polar animals
- Ice cube trays
- Mugs
- Hot chocolate powder
- Kettle
- Spoons
- Packet soup mix
- Digital microscope
- Plastic containers
- Porridge oats
- Milk
- Fruit

Topic 4 – Plants and animals where we live

- Collections bags
- Hand lenses
- Camera
- Sticky notes
- Lolly sticks
- Glue
- Paper
- Crayons
- Masking tape
- Twigs and leaves
- String
- Posters, pictures of birds
- Binoculars
- Tally chart
- Hide area
- Raisins
- Bird seed
- Sullet or lard
- Plastic bottles
- Wooden spoons
- Mixing bowls
- Scissors

Topic 5 – On safari

- Rucksacks
- Paintbrushes
- White trays or containers
- Magnifiers
- Yoghurt pots
- Bug viewer
- Invertebrate identification guides
- Plastic containers e.g. ice cream containers
- Soft paint brushes
- String
- Chalk, mini-whiteboards, paper
- Whiteboard pens
- Camera
- Sticky notes
- Microphone
- Easi-Scope digital microscope

Topic 6 – Holiday

- Suitcase
- Collection of sunglasses
- Suncream
- Card
- Plastic bottles – frozen water
- Cool bag
- Plastic container
- Plastic bag
- Aluminium foil
- Plastic marine animals
- Hoops
- Pictures of animals
- Marine animal puppets
- Collection of seashells
- Recyclable materials
- Summer dressing up clothes
- Winter dressing up clothes
- Collection of 'beach rubbish'

Topic 1 – Healthy me

- Balls, cones for a range of exercises
- Range of PE equipment
- Selection of cycle helmets
- Range of found materials to make egg-sized bike helmet
- Different foods for tasting
- Sugar/sugar cubes
- Photos or examples of favourite snacks
- Sticky notes
- Selection of snacks (healthy and less healthy)
- Fruit and skewers for making fruit kebabs
- Plant water spray
- Cheap hair gel or glitter gel

Topic 2 – Materials monster

- Wide range of objects made from different materials
- Word mat
- Sticky notes
- Camera
- Card
- Clay
- Cotton wool
- Fabric
- Glass, e.g. jars
- Paper
- Plastic
- Playdough
- Rocks/stones
- Wood

Topic 3 – Squash, bend, twist and stretch

- A variety of materials, e.g. pipe cleaners, sticky tack, sponges, rope, elastic, etc.
- Selection of socks
- Rulers
- Selection of favourite books and characters
- Plastic milk cartons – 1 and 2 litre

Topic 4 – Our local environment

- Moving toy such battery-operated toy dog
- Collection of things that are living, dead or never alive
- Objects to discuss alongside those in the environment
- Map of school grounds
- Graph paper
- Camera or tablet
- Plant and animal identification sheets
- Research materials on different plants and animals
- Cardboard boxes
- Materials to create habitats
- Paper plates
- String

Topic 5 – Young gardeners

- Vegetables
- Herbs
- Camera or tablet
- Selection of seeds in packets
- Area/pots for planting seeds
- Plastic drink bottles
- Bulbs such as daffodils or tulips
- Quirky containers

Topic 6 – Little masterchefs

- Aluminium foil
- Cleaning equipment for tables
- Cooking utensils
- Food containers
- Paper or plastic plates
- Glue
- Pizza ingredients including pizza base, cheese and vegetables
- Access to a kitchen
- Different recipes for salad
- Salad ingredients
- Bread and muffins
- Range of different wrappings
- Ingredients for fruit salad

Topic 1 – Rocks, soils and fossils

- A collection of sweets that can be used to represent different rocks
- Hand lenses or magnifying glasses
- Torches or light sources
- Sticky notes
- Sandpaper
- Water
- White vinegar
- Bowls
- Balances/scales
- Rock samples
- A range of foods with labels
- Ingredients for a sandwich
- White chocolate
- Milk chocolate
- Foil tins
- Cling film
- White and dark chocolate chips
- Tray
- Soil
- Paintbrush
- Tweezers
- Sticky tape
- Materials for working wall
- Selection of fossils
- Pots and pans, cutlery
- Newspapers
- Containers
- Plastic bottle of water
- Sand or clay
- Jam jars
- Timers
- Plasticine
- Objects to make imprints
- Plaster of paris
- Currants and raisins, barley sugar sweets
- Patty tins, oil, greaseproof paper
- Camera
- An oven
- Tools for digging fossils

Topic 2 – Food and our bodies

- Small plastic pots/bowls
- Sticky notes
- Large sheet of paper
- A range of bird feeders
- Everyday materials for making bird feeders
- A selection of foods, or images of foods
- A selection of different, empty drinks bottles
- Digital scales
- Collection of different bones
- Drinking straws
- Hand lenses/magnifying glasses
- Stiff card or lollipop sticks
- Elastic bands
- Cotton buds
- Jelly
- Small plastic containers
- Paper plates
- X-ray images of broken bones
- Glue or staplers
- Sticky tape
- Camera

Topic 3 – Light and shadows

- Coloured dough
- Torch
- Sticky notes
- Plane rectangular mirrors
- Tape
- A variety of shiny and dull surfaces
- Small objects to test reflections
- Protractor
- Opaque materials to make a rabbit puppet
- Chalk
- Tablets or cameras

Topic 4 – How does your garden grow?

- Selection of plants in pots
- Large sheets of paper
- Sketchbooks
- Small growing containers and trays
- Celery
- Containers of water
- Scissors and glue
- Jam jars
- Food colouring
- Drinking straws
- Carnations
- Plants, dead flowers and seeds
- Sticky notes
- Seed tray or pot with soil
- Syringe or other measuring equipment
- Quick growing seeds
- A range of materials to grow plants in
- Young plants at similar stage of growth
- Tweezers
- Cotton buds
- Props for role play
- Craft materials
- Velcro
- Seeds that stick to clothes
- Drinking water
- Rulers
- Hand lenses/magnifying glasses

Topic 5 – Forces and magnets

- Toy cars
- Tape measures
- Whiteboards and pens
- Chalk
- Objects to push and pull, e.g. with wheels or without
- Camera
- Plastic bottles
- Small PE equipment
- Magnets of various shapes and sizes
- Paperclips
- Iron filings
- Materials for testing magnetic attraction

Topic 6 – The nappy challenge

- Disposable nappies for each group
- Large sheets of paper
- Sticky notes
- Water (yellow food colouring optional)
- Materials to make a nappy, e.g. tissue paper, cardboard, velcro
- Tape measures
- Camera

Topic 1 – What's that sound?

- Tuning fork
- Drums
- Bird seed
- Objects such as plastic containers
- Boxes
- Guitar
- Water
- Pencils
- Plastic bottles
- Straws
- Rulers
- Rubber bands
- Mini whiteboards or pens and paper
- Headphones or earmuffs
- Alarm clock
- Plastic coat hanger
- Metal coat hanger
- Metal spoon
- Range of musical instruments
- Lots of noisy toys
- Long tape measure or pedometer
- Glass bottles

Topic 2 – Living things

- Pens and paper
- Lolly sticks or dry-wipe pens
- Camera
- Paint brushes
- Classification keys
- Images of plants and animals on card
- Names of the plants and animals on card
- Yoghurt pots
- Card
- Magnifiers

Topic 3 – Looking at states

- Range of solid objects such as beads, building blocks, metal objects, wooden, glass, etc.
- Range of liquids, e.g. milk, water, juice, squash, cornflower in water
- Range of objects containing gas e.g. balloon, ball, sealed glass
- Sorting hoops
- Cameras
- Variety of containers
- Ice cubes
- Latex gloves or molds to make ice hands
- Thermometers
- Trays
- Containers
- Chocolate – milk, dark and white
- Small foil pie dishes
- Flask or safe hot water
- Ice cube trays
- Grapes
- Winter gloves
- Sticky notes and pens
- Mini whiteboards
- Plastic ziplock bags
- Permanent markers
- Chalk

Topic 4 – Teeth and eating

- Disclosing tablets
- Boiled eggs
- Lolly sticks
- Range of different liquids
- Containers
- Card and pens
- Polystyrene plates
- Marker pens
- Pictures of animal jaws
- Pieces of fruit
- Large bowl
- Kitchen roll tube
- Plastic ziplock bags
- Cream crackers
- Ripe bananas
- Orange juice
- Scissors
- String
- Plastic cup with a hole cut in the bottom
- Images of predators and prey

Topic 5 – Power it up

- Paper and pens
- Tray
- Cloth
- Brass fasteners
- Thick card
- Paper clips
- Polystyrene blocks
- Circuit components
- Plugs
- Electrical wire
- Range of everyday materials including insulators and conductors
- Recyclable materials
- Batteries

Topic 6 – The big build

- Paper or card
- Masses
- Scissors
- 3D shape set
- Spaghetti
- Mini marshmallows
- Creme egg or toy figure
- Tower made from building blocks
- Measuring equipment
- Camera
- Materials for making posters
- Sticky notes
- Newspaper
- Sticky tape

Topic 1 – Out of this world

- Fruit to represent the Sun and planets
- Sticky labels with names of planets
- Globe and/or large ball
- Torch
- Small model of a person
- Mini suns to stick in the window
- Rotating chair
- Balls or other objects to model planets
- Glue and sugar paper
- Round biscuits
- Camera
- Cocoa
- Flour

Topic 2 – Material world

- A range of everyday materials
- Warm coat
- Range of different carrier bags
- Objects to fill carrier bags
- Broom handle or similar
- Range of objects to act as thermal conductors and insulators
- Range of kitchen equipment
- Digital thermometer
- Sticky notes
- Clear plastic cups
- Materials to dissolve in water
- Teaspoons
- Paper and pens
- Whiteboards and markers
- Cola
- Sugar plate and spoon
- Digital scales
- Items for dry mixtures, e.g. dried peas, lentils, flour, pebbles
- Household sieves
- Magnets
- Fake gold grains
- Soil and sand
- Range of materials to act as filters
- Heat source
- Small containers
- Bottles of clean and dirty water
- Materials for mixing and dissolving the water
- Range of household crystals, e.g. salt, sugar
- Hand lenses

Topic 3 – Circle of life

- Flowers
- Plants
- Pens and paper
- Camera
- Cuttings from plants
- Geranium plants
- Materials to make a poster
- Lolly sticks labelled with butterfly names
- Paper or plastic cups
- Bird seed
- Lolly sticks labelled with different animals and plants
- Sticky notes

Topic 4 – Let's get moving

- Range of PE equipment
- Chalk or pens and paper
- Different sized balls
- Camera
- Different coloured sticky notes
- Mini whiteboards and markers
- Cupcake cases of different sizes
- Ruler
- Stopwatch
- Parachute canopy
- Materials for pupils to make parachutes
- Bowls
- Jelly cubes
- Cooking oil
- Chopsticks
- Selection of fabric samples
- Selection of different brushes
- Selection of shoes with different grips
- Newton meters
- Bicycles
- Large cylinder of water
- Plasticine or similar material
- Everyday objects and tools using simple machines e.g. stapler, hammer, hand whisk
- Sticky tape
- Strong card or a tin can and ruler or building blocks
- Weights
- Coat hangers
- Elastic bands of different thicknesses
- Marshmallows and skewers
- Cotton reels
- Broom handle
- Pulleys
- String or rope
- Force meter
- Objects with gears

Topic 5 – Growing up and growing old

- Images of people of different ages
- Old magazines
- Long narrow sheets of paper
- Sticky notes
- Poems about growing up
- Materials to make a Venn diagram
- Pens
- Objects that simulate problems as a result of aging, e.g. glasses, ear plugs
- Poster making materials

Topic 6 – Amazing changes

- 500ml plastic bottle
- Small beaker
- Dried yeast
- Washing up liquid
- Hydrogen peroxide
- Teaspoon
- Food colouring
- Vinegar
- Bicarbonate of soda
- Balloon
- Scales
- Measuring jugs
- Materials for model volcano
- Camera
- Hot milk
- Iron materials
- Other materials including metal and non-metals
- Paint or grease to cover iron materials
- Containers with salt water, fresh water and no water
- Candles and sources of fire
- Foil tray and sand
- Small samples of different fabrics
- Tongs

Topic 1 – Classifying living things

- Liquorice allsorts
- Lollipop sticks
- Dry-wipe pens and rubbers
- Chalk
- Collecting trays
- Identification keys and books
- Hand lenses
- Glitter
- Range of food created by fungi e.g. bread, yoghurt, salami
- Knives
- Chopping boards
- Mushrooms
- Clear sandwich bags
- Sticky labels
- Fresh bread

Topic 2 – Healthy bodies

- Large sheets of paper
- Timers
- Large buckets
- Large plastic drinking bottle (approx. 5 litre)
- 50cm plastic or rubber tubing
- 6–8 packaged food items with readable nutrition labels and colour coding
- Range of empty drug packets, e.g. cigarettes, coffee, medicine, energy drinks
- Computers
- Range of everyday vegetables, meat, canned vegetables and processed foods

Topic 3 – Evolution and inheritance

- Colouring pencils
- Measuring tape or wheel
- Video camera
- Card
- Paper
- Toy dogs
- Lollipop sticks
- Plastic cup
- Bowl
- Sunflower seeds
- A pair of tweezers
- Chopsticks
- Mini whiteboards

Topic 4 – Light

- Hole punches
- Adhesive putty
- White card
- Black sugar paper
- Small torches
- Chalk (several colours)
- Pencils
- Wooden blocks or building blocks
- Rulers
- A blank picture frame
- Crayons
- Objects with reflective surfaces
- Mirrors
- Coloured wool
- Arrows on sticky card
- Perspex or glass block and prism
- Clear plastic tumbler
- Bowl
- Jug
- 2p coin
- Sticky tack
- Clear drinks bottle
- Bubble mixture
- Sweet cellophane wrappers
- Electrical circuit components including motors

Topic 5 – Electricity

- Whiteboard
- Bag of electrical resources
- Liquorice allsorts and laces
- Card
- Pens
- Sticky notes
- Paper
- Batteries
- Bulbs
- Buzzers
- Motors
- Wires
- Foil
- Crocodile clips
- Video camera

Topic 6 – *The Titanic*

- Small oranges
- Bowls
- Aluminium foil
- Household candles
- Plasticine
- Chalk
- Bowls
- Balloons
- Balloon pumps
- Force meters
- Small weights
- 2 litre plastic bottles
- Camera
- Ice balloons
- Digital thermometers
- Spirit thermometers
- Small water bottle with a hole in their lid
- Variety of materials e.g. cotton cloth, plastic sheeting, etc.
- A range of waterproof and non-waterproof materials
- Fluorescent and reflective materials
- Tin cans or dolls
- Water tray
- Large containers
- Plastic tubing
- Sand or small stones