

STARTERS FOR SCIENCE

STARTER FOR SCIENCE	FOCUS	KEY WORDS	YOU WILL NEED	YOU MIGHT ALSO WANT
1. Paper Towers	Structures	Weight, gravity, shape, strength	3 pieces of A4 paper, some books (or a plastic plate with small, heavy objects)	Sticky tape, other kinds of paper or card, ruler
2. Straw Planes	Flight	Air resistance, gravity, shape, distance	Paper straws (or make your own by wrapping paper around a pencil and securing it with tape), card, sticky tape, scissors	Different kinds of paper or card, ruler or tape measure
3. Paper Flowers	Absorbency	Absorb, liquid, solid	Bowl or tray of water, paper, scissors	Different kinds of paper or card, stopwatch or timer, other liquids
4. Shadow Puppets	Shadows	Light, shadow, block, opaque	Small piece of card, scissors, sticky tack, torch or mobile phone	Ruler
5. Falling Paper	Air resistance	Air resistance, weight, gravity, speed	Pieces of A4 paper	Card, other kinds of paper (sugar or tissue paper), ruler, mobile phone
6. Levers and Catapults	Levers	Lever, pivot, force, catapult	Different types of spoons, cylindrical objects (pen, pencil, glue stick, rolling pin), scrunched up paper ball	Elastic bands, bendy spatula
7. Animal Camouflage	Adaptations	Camouflage, visibility, predator, prey	Plain paper, colouring pens, pencils of paint, scissors	Leaves, twigs, natural materials, glue
8. Mirrors and Light	Light	Light source, reflect, travel, straight lines	Shiny, flat objects (mirrors, CDs, DVDs or saucepan lids), source of light (mobile phone or torch), dark place	Sticky tack or plasticine

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9. Melting Ice	Insulation	Solid, liquid, melting, insulating	Ice cubes, different types of socks, cups or containers, timer (clock or stopwatch)	Ruler, foil, bubble wrap, fabric or other materials to test
10. Paper Friction	Friction	Force, friction, grip, contact	Two similar sized books	Other kinds of books: exercise books, hardbacks, paperbacks, magazines
11. Pendulum Timers	Forces	Gravity, force, pivot, oscillate, swing, air resistance	String or wool, something small and heavy (a blob of sticky tack, some coins taped together, a key or a marble), card, sticky tape	Ruler, timer, scissors
12. Spinning Paper	Air resistance	Fall, wing, force, gravity	Paper, scissors, paperclips, <u>spinner template</u>	Card, different types of paper
13. Blowing Bubbles	Bubbles	Gas, liquid, solid, float	Pipe cleaner or wire, washing-up liquid, fizzy water or lemonade, raisins or grains of rice	Pot of bubbles
14. Colourful Ink	Chromatography	Colour, ink, spread, absorb, separate	Felt-tip pens, dish of water, kitchen roll, sticky tack, scissors, ruler, books or containers (to prop up the ruler)	
15. Making Music	Sound	Vibration, pitch, high, low	2 drinking glasses, water, spoon, cardboard box, elastic band, 2 pencils	Extra elastic bands
16. Floating Boats	Floating and Sinking	Force, shape, mass, weight, buoyancy	3 squares of foil (approx. 15cm x 15cm), large container of water, small objects, e.g. 1p coins, pieces of lego, marbles, cloth	