

A series of science activities aimed at children of upper primary age. Ideal for use in a weekly club.

## OVERVIEW

- Activities challenge children to complete a practical activity linked to a key area of science learning.
- Key questions are listed, as well as an overview to support the activity leader in running each session. Some key facts/science are included and there are questions and further learning points to extend the session if required.

## EXTRA INFORMATION - SETTING UP A CLUB

- Children's University.

*These club activities are validated by the [Children's University](#) and as such count towards accredited learning for any children taking part in the scheme. The stamp code a child will need to add this to their online passport is **Green 4295**. This can be shared with the child after each of the 8 sessions and written in their Passport to Learning.*

- Select the children.

*Group leaders should aim for a mix of race, gender and ability.*

- Number of children: up to 12, to allow for different groups sizes.

*Lollipop sticks could be used to determine groupings and allow children to work in different groups each time. Numbers written on the bottom of lollipop sticks, selected at random by each child, determine group.*

## RESOURCES AND PREPARATION

ACTIVITY	SCIENCE AREA	EQUIPMENT
Blooming!	Capillary action	Different coloured paper and light cardboard, simple flower template (see image on activity sheet), scissors, shallow containers, jugs of water, different liquids (milk, washing-up liquid), timers
Light Maze	How light travels (reflection)	Shoe box with a lid (one per group), scissors, masking tape/mounting putty, variety of mirrors, strong/bright torches (one per group), periscope, selection of string, wire, metre ruler, scissors
Egg Drop!	Forces	1 egg per pair + 3 eggs for demo, plastic sheet (to cover the floor), junk materials: e.g. lolly sticks, elastic bands, newspaper, disposable cups, cardboard, sticky-tape, scissors, metre ruler, 2 boxes of boiled eggs, washing bowl with water/soap for washing hands and feet, towel
Clean Me!	Filtration	One bucket of 'dirty water' (water, sugar, sand, soil, gravel, leaves, salt, paperclips), spoon/stirrer, beakers, funnels, filter paper, sieve, paper towels, magnets, hand lenses
Mini Hovercrafts	Friction	Glue, glue gun, old CDs (one per pair), sports bottle tops (one per pair), balloon, timer
Slow the drop!	Air resistance	Sheets of newspaper, string, Lego™ figures (or similar), scissors, metre ruler, sticky tape, 2 identical plastic bottles, sand, funnel, tablet for recording, tennis ball
Escape!	Buoyancy and wind power	Modelling clay/playdough/mounting putty, water tank, recycled materials: trays, tubs, paper, card etc., wooden barbeque skewers/cocktail sticks, scissors, sticky-tape, plastic tray (1 per pair), water, Lego™ (or similar) figures, fan, timer
Race!	Action and Reaction	Paper straws, recycled materials: plastic bottles, trays, tubs, paper, card etc., wooden barbeque skewers/cocktail sticks, bottle tops, cotton reels, scissors, sticky-tape, balloons