

# Year 6 Home Experiment Pack

Instructions:

Below is a list of some possible Science experiments you might like to try at home and then write a bit about what you've got up to. There is a list of possible experiments, choose one to do per week and if you would like to you can fill in the practical document to show us what you've done.

You may want to use your home learning platform to team up with your friends (at different houses of course!) and gather data between you to share.

**There are loads to choose from below :**

**What to do:**

1. Pick your experiment
  2. Choose your variables. You'll need the independent, dependent and any controls. Check the glossary if you don't know what these are.
  3. Write a list of equipment and your method. This doesn't need to be massively detailed!
  4. Think about how you may need to be safe with this.
  5. Do your experiment!
  6. Write what you've found out. Use the table and graph paper if you want to.
- Bright Sparks: How does this experiment link to science you have already learned?

## SCROLL DOWN FOR EXPERIMENTS

Topic	Equipment needed	Resource link
<b>Making a wormery</b>	Clear 2 litre bottle, 1 piece of A4 black card (or other dark material), worms from the garden, soil, sand, vegetable peelings	<a href="https://drive.google.com/open?id=1cnz-0igotNoCQmLL5VEZ46ktrQYw3kUz">https://drive.google.com/open?id=1cnz-0igotNoCQmLL5VEZ46ktrQYw3kUz</a>
<b>Constellation viewer</b>	Empty Pringles container, 1 push pin, plasticine or playdough or blue tack, scissors, printed out sheet	<a href="https://drive.google.com/open?id=1DzWFzt5DcVp6exF9rX8v1rCBuk7jFkiK">https://drive.google.com/open?id=1DzWFzt5DcVp6exF9rX8v1rCBuk7jFkiK</a>
<b>Making a boomerang</b>	Large piece of cardboard (bottom of takeaway pizza box works well), scissors, tape, bluetak, printed out boomerang template	<a href="https://drive.google.com/open?id=1LAxf5U0Q08AoXU-vV1oqyzZz2wVIzZF">https://drive.google.com/open?id=1LAxf5U0Q08AoXU-vV1oqyzZz2wVIzZF</a>
<b>Water displacement</b>	1 large container that fits inside a deep-sided tray or washing up bowl, measuring jug or beaker with a spout for pouring, tongs, towels	<a href="https://drive.google.com/open?id=1uS4NEPkAPXd1xP7mRXlOelvB7BYhiqNr">https://drive.google.com/open?id=1uS4NEPkAPXd1xP7mRXlOelvB7BYhiqNr</a>
<b>Trace fossils</b>	2 tbs used coffee grounds, 2 tbs plain flour, 1 tbs salt, 1 tbs cold coffee, 1 bowl, 1 spoon, variety of objects to press in dough, greaseproof paper	<a href="https://drive.google.com/open?id=1zT7nmuaIkIImqOcQpTLYc80_e0-7SUcT">https://drive.google.com/open?id=1zT7nmuaIkIImqOcQpTLYc80_e0-7SUcT</a>
<b>Double bubble</b>	2 cup, 1 straw, 1/2 tsp sugar, 1 tsp washing-up liquid, jug of warm water	<a href="https://drive.google.com/open?id=1WFObYUj8btJ7Uk6TwU7oSWOXEIkX27iq">https://drive.google.com/open?id=1WFObYUj8btJ7Uk6TwU7oSWOXEIkX27iq</a>
<b>Blast off!</b>	1 thin bendy straw, 1 thicker milkshake straw, sticky tape, scissors	<a href="https://drive.google.com/open?id=1FtGgT5h2dYypFOTBRbKxILRpFaunyoy3">https://drive.google.com/open?id=1FtGgT5h2dYypFOTBRbKxILRpFaunyoy3</a>
<b>Making ice-cream</b>	3 tbs salt, small ziplock bag and large food bag, 8 ice-cubes, 1 tbs full fat milk, 1 tbs cream, 2 tsp sugar, 1/2 tsp vanilla, winter gloves	<a href="https://drive.google.com/open?id=1o6B5iskn47LthR9-P-sxDjIuuScPw7h1">https://drive.google.com/open?id=1o6B5iskn47LthR9-P-sxDjIuuScPw7h1</a>
<b>Vitruvian man</b>	Tape measure at least 150cm long (and access to spreadsheet on computer if desired)	<a href="https://drive.google.com/open?id=1SDLOzntGG9Z_UYvQeZWBuaTxA4TtIsK1">https://drive.google.com/open?id=1SDLOzntGG9Z_UYvQeZWBuaTxA4TtIsK1</a>
<b>Glitter germs</b>	Glitter, hand lotion, tray or newspaper to catch excess glitter	<a href="https://drive.google.com/open?id=1Z-ToQoh1vJGZqFzMrpuxyAygnZC63x47">https://drive.google.com/open?id=1Z-ToQoh1vJGZqFzMrpuxyAygnZC63x47</a>
<b>Investigating indicators</b>	Chopping board and knife, beakers or plastic cups, tea strainer or sieve, shot glasses or other small container for liquid, choice of red cabbage, beetroot, blackberries or rose/geranium petals, various household liquids to test e.g. lemon juice, bicarb,	<a href="https://drive.google.com/open?id=1vLGUi-NkVIZwBJ9BvI0KA5vB-jdxQODs">https://drive.google.com/open?id=1vLGUi-NkVIZwBJ9BvI0KA5vB-jdxQODs</a>
<b>Vinegar and bicarb balloons</b>	Small fruit drink or water bottle, 1 balloon, vinegar, bicarbonate of soda, funnel, small spoon	<a href="https://drive.google.com/open?id=1BdfJQHO5Mlqhqlz4xo6K1xtY75hHWUgj">https://drive.google.com/open?id=1BdfJQHO5Mlqhqlz4xo6K1xtY75hHWUgj</a>

<b>Sunshine absorbancy</b>	shallow dish, food colouring, strips of material e.g. kitchen roll, jay cloth, paper, plastic bag, aluminium foil, sponge, old t-shirt, towel, greaseproof paper,	<a href="https://drive.google.com/open?id=1yr_LEasNnW7nZxXLVHg0YYW1vHcgUgBT">https://drive.google.com/open?id=1yr_LEasNnW7nZxXLVHg0YYW1vHcgUgBT</a>
<b>Investigating soap and detergent</b>	A couple of the same sized plastic bottles, different detergents e.g. bar of soap, liquid handwash, washing-up liquid, washing powder, toothpaste, bubble bath, 1 marker pen, food colouring, jug for water	<a href="https://drive.google.com/open?id=1hOmh2bFv8HJiTrrIRE_oQQhMe8VhMq1">https://drive.google.com/open?id=1hOmh2bFv8HJiTrrIRE_oQQhMe8VhMq1</a>
<b>Dissolving jelly</b>	Mug, thermometer, stopwatch, raw jelly cubes (dark colours are easiest)	<a href="https://drive.google.com/open?id=1hbgkXiGzdoqsLO5Ns8qZp9G1FH5GLHp1">https://drive.google.com/open?id=1hbgkXiGzdoqsLO5Ns8qZp9G1FH5GLHp1</a>
<b>Straw shooter rocket</b>	1 clean dry drinks bottle, 1 narrow straw, 1 wider milkshake straw, plasticine or playdough, sticky tape and scissors	<a href="https://drive.google.com/open?id=1jRX2rHt-owgHu-vU_wb_b2nG-KzrrpyW6">https://drive.google.com/open?id=1jRX2rHt-owgHu-vU_wb_b2nG-KzrrpyW6</a>
<b>Making bath bombs</b>	Paper cupcake case, 1 tsp cream of tartar, 1 tsp bicarbonate of soda, 1 tsp oil, 2-3 drops of food colouring and glitter if wanted.	<a href="https://drive.google.com/open?id=1iqWl3bp16SRFBahwaMmpksIUUIRDACqM">https://drive.google.com/open?id=1iqWl3bp16SRFBahwaMmpksIUUIRDACqM</a>
<b>Separating ink</b>	Shallow dish or saucer, filter paper, (art paper such as watercolour or marker paper or other thicker paper would probably work well), different coloured felt pens, cotton bud, salty water	<a href="https://drive.google.com/open?id=1Ti_cYIBk00ApCahcS_G0v7mdsvB_toG9">https://drive.google.com/open?id=1Ti_cYIBk00ApCahcS_G0v7mdsvB_toG9</a>