

Useful websites for Science Investigations

<https://www.education.com/resources/science-projects/>

<https://www.sciencebuddies.org/science-fair-projects/science-projects>

<https://www.goodhousekeeping.com/life/parenting/g32176446/science-experiments-for-kids/>

<https://www.weareteachers.com/easy-science-experiments/>

<https://www.waterford.org/blog/science-fair-project-ideas/>

[Science Projects and Articles by Science Made Simple - Science Fair Projects - Easy kids Science Experiments](#)



Asking a question

After choosing a topic it is important that the pupils create a scientific question which they can base their project on. It should be an interesting question that the pupils will want to work on for the next few weeks. Try to ensure that pupils' questions are focused, so that they can answer it with a simple experiment. Science questions usually start with how, what, where, when, why, which or does. Below are some examples of science questions to get the pupils thinking about how they might structure a question based around their chosen topic.

Tip: A good question will allow you to measure changes in important factors (variables) using a quantity e.g. length, height, width, time, volume, velocity.

How does/do _____ affect _____?

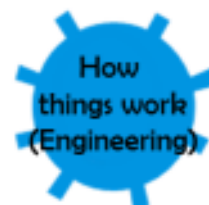
- How does **temperature** affect **plant growth**? (words in bold can be changed)
- How do **different materials** affect **bridge strength**?
- How does the **type of paper** affect **airplane flight**?

What is the effect of _____ on _____?

- What is the effect of **exercise** on **memory**?
- What is the effect of **temperature** on **magnet strength**?
- What of the effect of **salinity** on the **freezing point of water**?

The pupils do not have to stick to these structures, these are just suggestions. There are many other ways that you can ask a scientific question...

- Why do **cars have four wheels**?
- What is the best way to **reduce the odour of shoes**?
- How do **bridges work**?
- How do **planes fly**?
- How can you **lift a heavy weight without touching it**?
- What **length lever** is best at **unscrewing a tight knot**?
- Why do **buildings have so many windows**?
- Why are **pitched roofs** better than **flat roofs**?
- How do **buildings withstand earthquakes**?
- What type of **ball bounces the highest**?
- Why does **popcorn go 'pop'**?
- How does a **teacher leaving the classroom** affect **noise levels**?
- What type of **surface reflect light well**?
- What type of **material** gives **the darkest shadow**?
- How do you **increase the air resistance** of a **falling object**?
- Why can't you keep a **bank card with a mobile phone**?
- How does a **compass work**?
- How does **sound travel through the air**?



- What **foods** do **worms** prefer in a **compost bin**?
- How does **diet** affect **mood**?
- How does **exercise** affect **heart rate**?
- How does **yeast** make **bread rise**?
- Does a plant need **light** to **survive**?
- Why is **seed dispersal of a plant important**?
- Why does **a plant have petals**?
- Why is **sugar** bad for our **teeth**?
- What happens to **our memories as we age**?
- How do the **joints in our bodies work**?
- Why are **humans** top of the **food chain**?
- How does **a sundial work**?
- Why is a **football** made of **hexagons**?
- What is **zero**?
- What is a **negative number**?
- Why is **honeycomb** made of **hexagons**?
- Is a **2D globe map an accurate representation of a 3D globe**?
- Can I use **global coordinates** to **map out a route**?
- What is the difference between **metric** and **imperial measurements**?
- Are **faces symmetrical**?
- What **living things in the garden** are **symmetrical** and why?
- What is the **probability of rolling a 4 using one die**?
- What is the **probability of rolling a seven using two dice**?
- How do you **separate salt and sand**?
- What is the best **material for keeping a drink warm**?
- What is the best **material to make a boat with**?
- Why is **cutlery made from metal**?
- Which **detergent** is best at **removing stains**?
- How much **salt** can you **dissolve in water**?
- How does the **type of chocolate** affect **melting time**?
- What happens to **water when it evaporates**?
- How do you **separate salt, sand and iron filings**?

