

The Invention

What is an invention?

Inventions are **original applications** of technology which **solve a problem**.

The scope for inventions is limited only by your imagination.

You are asked to make a **WORKING** invention that has a practical application.

Your invention may be a new device, method or process that has not existed before or you may choose to look at an existing device and invent a solution that works better.

- Your invention must be presented as a **WORKING** invention.
- Your invention must be no larger than 0.5m x 0.5m x 0.5m and weigh no more than 15 kg.
- Your invention must be safe to operate in a crowded area and must have appropriate safety features.

Written report

You must include with your invention a written report that includes the following:

Aim(s) - Explains the purpose of your invention and how it solves a problem

Introduction - Explains what is original or new about your invention, and your ideas behind it. How your invention is important or relevant to an existing problem.

Instructions - operating instructions of your invention.

Design brief - describes how you went about building and testing, problems you encountered and how they were solved, and applied to the design.

Draw and label diagrams of your prototype designs, including relevant explanations.

List any safety considerations in your design.

Describe the limitations of your design and/or suggest how you would make improvements.

Acknowledgements and References – Make sure you include a list of people who gave you help/advice and outline the ways they helped you.

Also list other sources of information used.

Include a photo of your invention in your report.



Be sure to research thoroughly that your invention has not been tried already.

Success criteria:

- Your invention is highly original, innovative and inventive.
- Your invention solves a real problem.
- Your invention is well constructed.
- You have shown resourcefulness in the parts you have chosen to use including consideration of properties of the materials.
- Your invention is easy to use and comes with instructions on how it operates.
- You have included all written material with your presentation.

For advice and assistance
on this task see:
A Technology teacher