

Properties and uses of substances 1

What is an inventor?

An inventor creates new things. They solve problems. Charles Macintosh invented waterproof materials.



This is Charles Macintosh. He was a Scottish inventor. He invented waterproof fabric. The macintosh raincoat is named after him.

Inventors work in lots of different workplaces, including:

- ▶ research labs
- ▶ their homes
- ▶ universities.

Key Learning and Science Skills:

- ▶ Observe that there is a problem to solve.
- ▶ Suggest a way to solve the problem (a solution).
- ▶ Test their solution to the problem.
- ▶ Decide whether their solution solves the problem.

What is a toy maker?

A toy maker designs and makes new toys. They choose materials carefully to make toys that work. For example, a bouncy ball needs a stretchy material and building blocks need to be strong.



This is Arvind Gupta. He is an Indian toy maker. He is very good at science.

Toy makers might work in:

- ▶ shops
- ▶ their homes
- ▶ game design.

Key Learning and Science Skills:

- ▶ Be creative when designing, making and evaluating new toys.
- ▶ Find out how to make a new toy.

What is a structural engineer?

A structural engineer designs things like buildings and bridges. They use materials to make sure the structures are strong and stable and do not fall over or break.



This is Sophie. She is a structural engineer.

Structural engineers work in different places with different people, including:

- ▶ architects
- ▶ builders
- ▶ other engineers.

Key Learning and Science Skills:

- ▶ Be able to work with lots of other people to make strong structures.
- ▶ Be good at telling other people what you have found out.

Would you like to use your learning about properties and uses of substances when you are older?