

## What is an inventor?

An inventor creates and discovers new things. They look to solve problems. Sir James Martin tried to solve the problem of pilots dying in aircraft by inventing the ejector seat. Inventors work in lots of different workplaces, including:

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

**Key Learning** and **Science Skills** needed:

- ▶ Solve problems that have been observed.
- ▶ Set up investigations and draw conclusions to understand if their invention solves the problem.



*This is Sir James Martin. He was an Irish engineer who invented aircraft ejector seats.*

## Everyday materials

## 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. They might work in:

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

**Key Learning** and **Science Skills** needed:

- ▶ Be creative when designing, making and evaluating new toys.
- ▶ Research using secondary sources to find out how to make a new toy.



*This is Arvind Gupta. He is an Indian toy inventor and expert in science.*

## What is a structural engineer?

A structural engineer designs structures such as buildings and bridges. They use materials to make sure the structures are strong and stable so they do not fall over or break. They work in different places with different people, including:

- ▶ architects
- ▶ builders
- ▶ other engineers.

**Key Learning** and **Science Skills** needed:

- ▶ Be a team worker with lots of other people to make strong structures and solve problems.
- ▶ Draw conclusions and communicate findings when working together with other people.



*This is Sophie. She is a structural engineer in Cardiff, Wales.*

*Would you like to use your learning about everyday materials when you are older?*