

# Famous Engineers

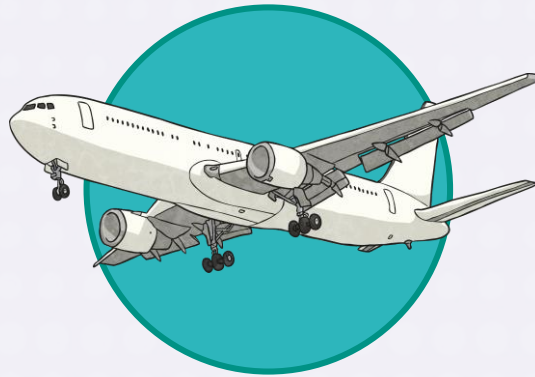
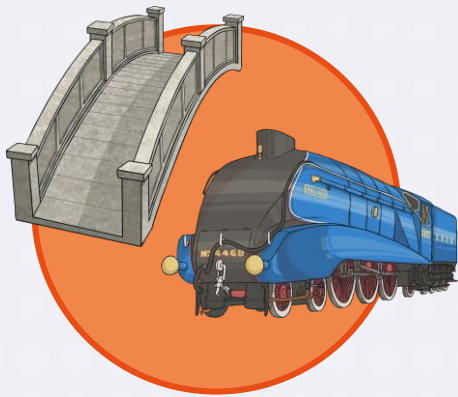


# What Is Engineering?

Engineering is about solving problems by creating a new product or improving an existing product.



Engineers...



## Think about it

Look around the room you are in and think about how engineers would have been involved in just about everything you can see, from which materials are used to how the ceiling stays up.



# What Skills Do You Need to Be an Engineer?

Think about what skills and knowledge you would need to be an engineer and then compare your ideas with some of the suggestions below:



# Close Your Eyes...

Imagine an engineer



# Pioneering Female Engineers

These are the women who made groundbreaking inventions or development in the late 19<sup>th</sup> century and first half of 20<sup>th</sup> century.

Click on the pictures to find out more



## **Lillian Moller Gilbreth**

Psychologist, engineer, and mother to twelve children. Made huge improvements to the way we live with things such as shelves in fridge doors and pedal bins.



## **Hedy Lamarr**

She invented a way of transmitting secret radio messages in the Second World War. This technology is what is used for mobile phones and Wifi nowadays.



## **Martha Coston**

Best known for her device the 'Coston Flare' which are the pyrotechnic flares used for signalling at sea.

# Late 20<sup>th</sup> Century Female Engineers

These are the women who continued to break ground in engineering.

Click on the pictures to find out more



## **Valentina Tereshkova**

A Russian cosmonaut and the first ever woman in space in 1963, when she orbited the Earth.



## **Stephanie Kwolek**

She was a chemist who invented Kevlar, an incredibly light but very strong material used for many things including bulletproof vests.



## **Marissa Mayer**

In 1999, she was employee number twenty of Google and the company's first female computer engineer. Now President and CEO of Yahoo.

# 21<sup>st</sup> Century Female Engineers

The next generation...

Click on the pictures to find out more



**Ruchi Sanghivi**

The first female computer engineer at Facebook.



**Angela Belcher**

An American biological engineer who has done groundbreaking work on using viruses to 'grow' organic batteries.



**Maggie Aderin-Pocock**

Space expert and television presenter on the Sky at Night and various space documentary and educational programmes.

# Quiz Time

1. Name two school subjects that engineers use.
2. Tell me about a female engineer.
3. Suggest something an engineer might have done.
4. What sort of person does an engineer need to be?
5. What is Kevlar used for and why?

