



How can I use this with my children?

These cards are a great way for your child to learn about significant figures in an engaging, tactile way. Use them to play memory games, matching games or simply as a colourful display.

How does this help my children's learning?

These cards can benefit your child's learning in all manner of ways, such as testing memory, practising reading comprehension, or inspiring their own appetite for design and invention.

Ideas for further learning:

Why not encourage your child to make their own fact cards depicting the people they admire? These could be sports stars, fictional characters or even family members!

Mary 'Molly' Fergusson

Civil Engineer

Born: 1914 - Died: 1997



She studied Civil Engineering at the University of Edinburgh, graduating in 1936.

She is recognised as the first British woman to work full-time in civil engineering.

She was responsible for the engineering works in the River Leaven Purifications Scheme of 1952.

She was the first woman to be elected as a full member of the Institution of Civil Engineers.

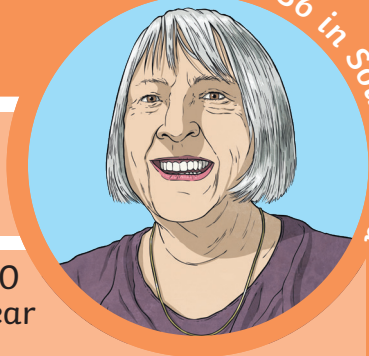
Designers and Engineers

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Margaret Calvert

Typographer and Graphic Designer

Born: 1936 in South Africa



She moved to England and studied at the Chelsea College of Art.

She designed the Calvert font in 1980 which was used for the Tyne and Wear Metro system.

In 1957, she was given the responsibility for the redesign of the road sign system and developed easy to understand pictograms.

She was appointed an OBE in 2016 for services to typography and road safety.

Designers and Engineers

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Annie Atkins

Graphic Designer

Born: 1981 in the UK



She graduated in Visual Communication and Film Production.

She won an Art Directors Guild Award for her work on 'The Grand Budapest Hotel.'

The items she makes are often overlooked in a film but help set the period of time, e.g. postage stamps, fake passports and shop signs.

She worked on producing graphic pieces for films such as 'The Grand Budapest Hotel' and 'Boxtrolls,' as well as TV series 'The Tudors' and 'Vikings.'

Designers and Engineers

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Caroline Haslett

Electrical Engineer

Born: 1895 - Died: 1957



She was the first secretary of the Women's Engineering Society.

She pioneered for women in the electrical and professional world.

She aimed to try to liberate women from 'the drudgery' of housework by inspiring them to work outside the home.

She was made a Dame for her work in 1947. She has a school and a road named after her. Rumour has it, her dying wish was for her body to be cremated by electricity.

Designers and Engineers

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Beatrice Schilling

Aeronautical Engineer and Motor Racer

Born: 1909 - Died: 1990



She graduated with a degree in Electrical Engineering from Manchester University.

She went on to study for a Master's degree in Mechanical Engineering.

She invented 'Miss Schillings Orifice,' a washer to restrict fuel flow to the carburettor. She undoubtedly saved many lives with this invention.

This washer helped prevent engines stalling in Rolls Royce engines in the RAF Hawker Hurricane and Spitfire aircraft.

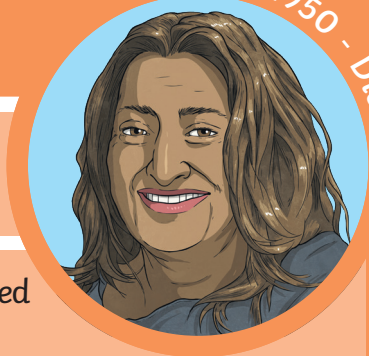
Designers and Engineers

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Zaha Hadid

Architect

Born: 1950 - Died: 2016



She studied at the Architectural Association School for Architecture in London.

She was the first woman to be awarded the Pritzker Architecture Prize in 2004.

She is known for combining geometric shapes with organic curves to create buildings with flair and originality. She was made a Dame in 2012 for services to architecture.

Her buildings include the London Olympics Aquatics centre, the Guangzhou Opera House and the BMW Administration Building.

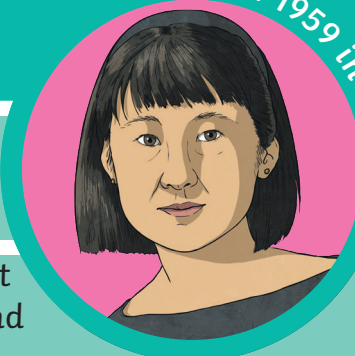
Designers and Engineers

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Maya Lin

Designer, Architect and Artist

Born: 1959 in the USA



She designed the Vietnam Veterans Memorial in Washington DC which earned her national recognition at 21 years of age.

This piece is considered one of the most influential memorials since the Second World War.

She is well known for her sculptures and buildings which are often associated with memorials and environmental passions.

In 2016, she was awarded the Presidential Medal for Freedom, the highest civilian award in the USA, for her architectural and design work.

Designers and Engineers

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Mary Quant

Fashion Designer

Born: 1934 in the UK



She studied illustration at Goldsmiths College, London.

An icon of the late fifties and sixties, she was the first to be awarded Dress of the Year in 1963.

She pioneered the miniskirt and hot pants styles in the sixties. She was appointed a Dame in 2015 for her services to the fashion industry.

In 1988, she designed the interior of a special edition Mini. Only 2000 were made for the UK market.

Designers and Engineers

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James Dyson

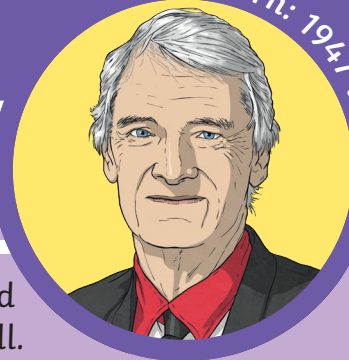
Industrial Design Engineer, Inventor

He studied Interior Design at the Royal College of Art, London.

His first invention – the Ballbarrow - replaced the wheel of a wheelbarrow with a ball.

He developed over 5000 prototypes before launching his G-Force bagless vacuum cleaner. After it was rejected by all major manufacturers he decided to set up his own company, 'Dyson.'

The James Dyson Foundation was set up in 2002 to support design and engineering in schools.



Born: 1947 in the UK

Designers and Engineers

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Norman Foster

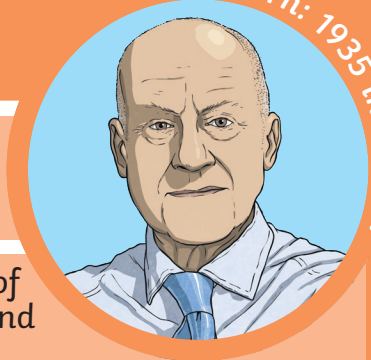
Architect

He is famous for high-tech architecture.

He graduated from the University of Manchester School of Architecture and City Planning.

He was knighted in 1990 and was offered a peerage to become a Baron in 1999.

His works include the McLaren Technology Centre, Wembley Stadium, Hearst Tower and the 'Gherkin.'



Born: 1935 in the UK

Designers and Engineers

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Paul Smith

Fashion Designer

His early ambition was to become a professional cyclist but an accident put him in hospital for six months.

He left school at 15 to work in a clothing warehouse. He studied tailoring before accepting a job with a Savile Row tailor.

He opened his first shop in Nottingham in 1970 selling his own brand and those of other established names. After the brand grew he opened a store in London in 1979.

He is famous for his recognisable stripe. He was awarded a knighthood in 2000 for his services to fashion, and received the outstanding achievement award in 2011 for British fashion.



Born: 1946 in the UK

Designers and Engineers

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Jasper Conran

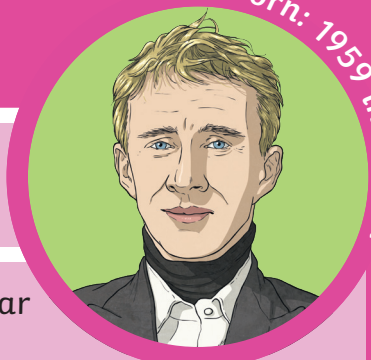
Fashion Designer

In 1978, when he was 19, he designed his first line of womenswear under his own name.

In 1985, he developed his menswear collection.

He has since expanded to design furnishings, fabrics, wallpapers and tableware.

He was appointed an OBE for his services to fashion and design in 2008.



Born: 1959 in the UK

Designers and Engineers

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Isambard Kingdom Brunel

Mechanical and Civil Engineer

Born: 1806 - Died: 1859



He is considered to be one of the 19th century's engineering giants. Brunel has a university named after him in London.

Not all his projects were successful, however they often had innovative solutions to long-standing problems.

He assisted in the building of SS Great Britain, the largest ship of its time which was also the first propeller-driven vessel.

His projects include the Thames Tunnel, Paddington Station, the Clifton Suspension Bridge and SS Great Eastern.

Designers and Engineers

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Henry Ford

Mechanical Engineer

Born: 1863 - Died: 1947



He became an engineer with the Edison Illuminating Company where he met Thomas Edison.

Through his own experiments, he designed and developed a four-wheel vehicle which Edison supported.

In 1908, he launched the Model T car under his own company Ford Motor Company.

As production increased, he launched the \$5 a day wage which secured him the best workers in the area (\$5 in to-days money is about \$120).

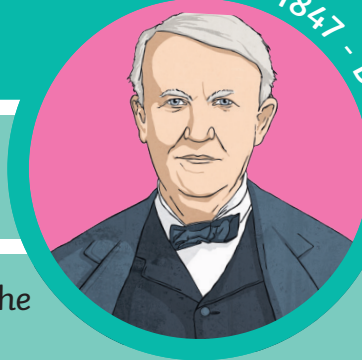
Designers and Engineers

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Thomas Edison

Inventor

Born: 1847 - Died: 1931



He worked as a telegraph operator which inspired many of his inventions.

He is famous for the light bulb and the motion picture camera.

He was one of the first inventors to look into producing items en masse in a factory.

The phonograph was one of his first inventions which made him famous. It was a machine able to record and play back sound. This invention was designed in 1877.

Designers and Engineers

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Alexander Graham Bell

Scientist, Inventor, Engineer

Born: 1847 - Died: 1922



He is famous for inventing the first practical telephone.

He refused to have a telephone in his own study – he considered it a distraction.

He also invented early models of metal detectors, which were developed to find the bullet in the body of US President James Garfield.

He was interested in the science of sound due to both his mother and wife being deaf. These two women influenced a lot of his work.

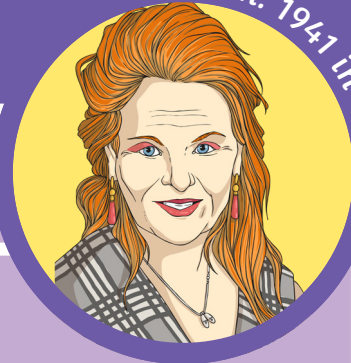
Designers and Engineers

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Vivienne Westwood

Fashion Designer

Born: 1941 in the UK



Designers and Engineers

She was a primary school teacher before becoming a famous designer.

In the 1960's, alongside her husband Malcolm McLaren, she designed clothes with a rock 'n' roll influence which was very shocking to people at the time.

In 2004, an exhibition devoted to her creations opened at the Victoria and Albert Museum in London. This was the largest exhibition the museum had ever dedicated to a British designer.

Westwood has twice been awarded British Designer of the Year and became a Dame in 2006.

