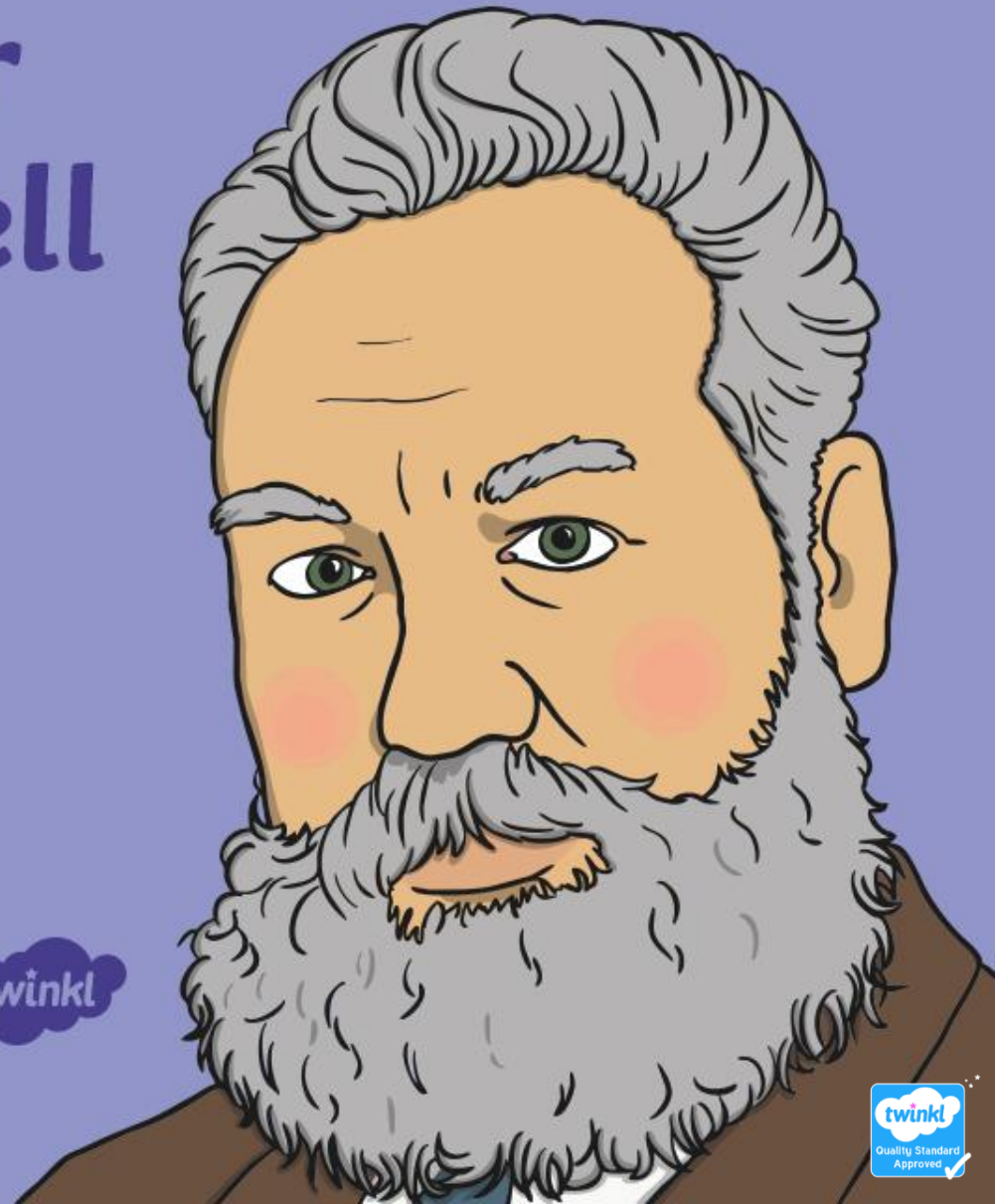


# Alexander Graham Bell



# Early Life

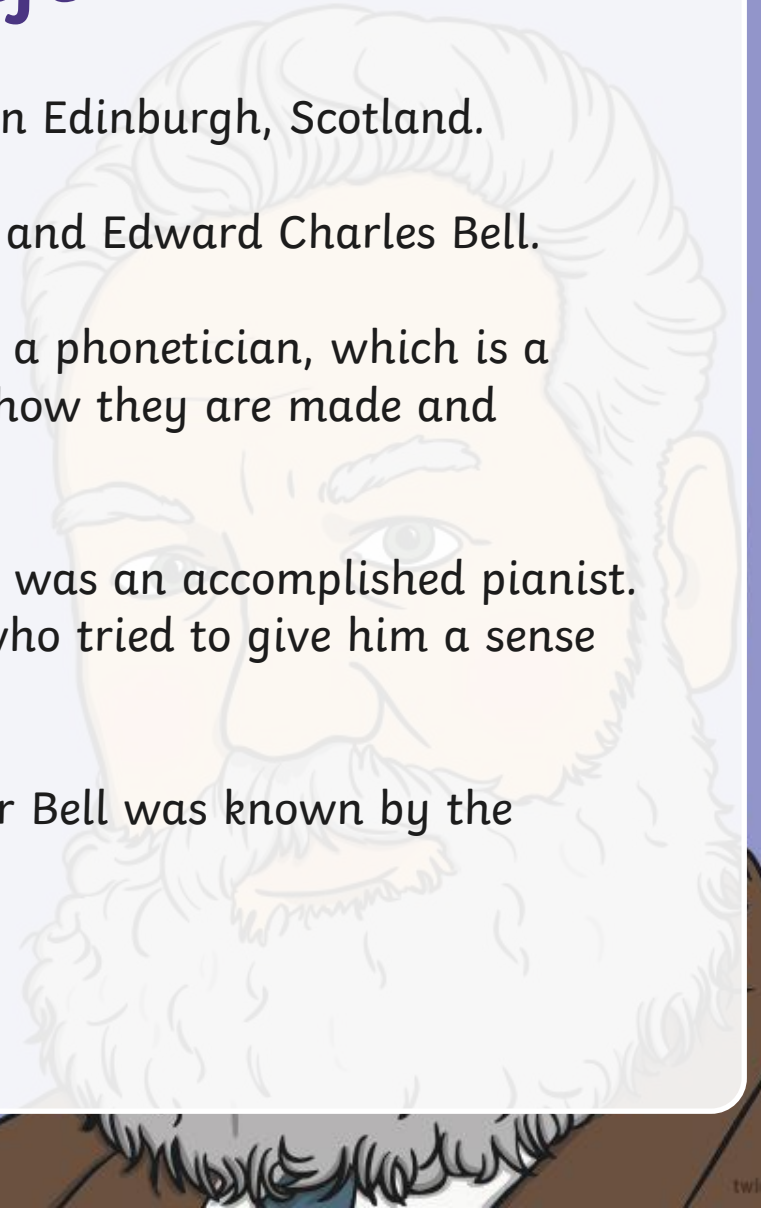
Alexander Bell was born in March, 1847 in Edinburgh, Scotland.

He had two brothers, Melville James Bell and Edward Charles Bell.

Bell's father, Alexander Melville Bell, was a phonetician, which is a scientist who studies speech sounds and how they are made and transmitted.

His mother was Eliza Grace Bell, and she was an accomplished pianist. Bell was home-schooled by his mother, who tried to give him a sense of curiosity about the world around him.

To his close friends and family, Alexander Bell was known by the nickname Aleck.



# First Invention

Bell was very curious about the world at an early age and had a great ability to find solutions to problems.

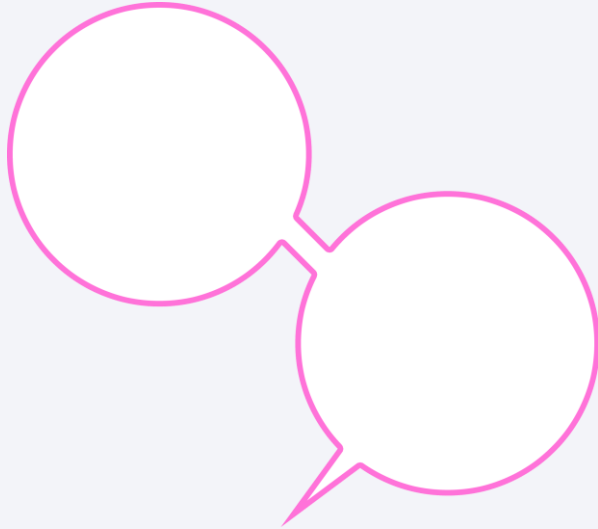
The family of his friend and neighbour, Ben Herdman, ran a flour mill. While visiting the mill, Bell noticed the slow process of dehusking the wheat grain.

At age 12, Bell built his first invention to solve this problem. He created a device with rotating paddles and nail brushes that made it much easier and quicker to separate the grain from the husks.

His device was used in the mill for several years! As a thank you, the mill's owner, John Herdman, allowed Bell to use a small workshop at the mill to create more inventions.



# Work with Sound

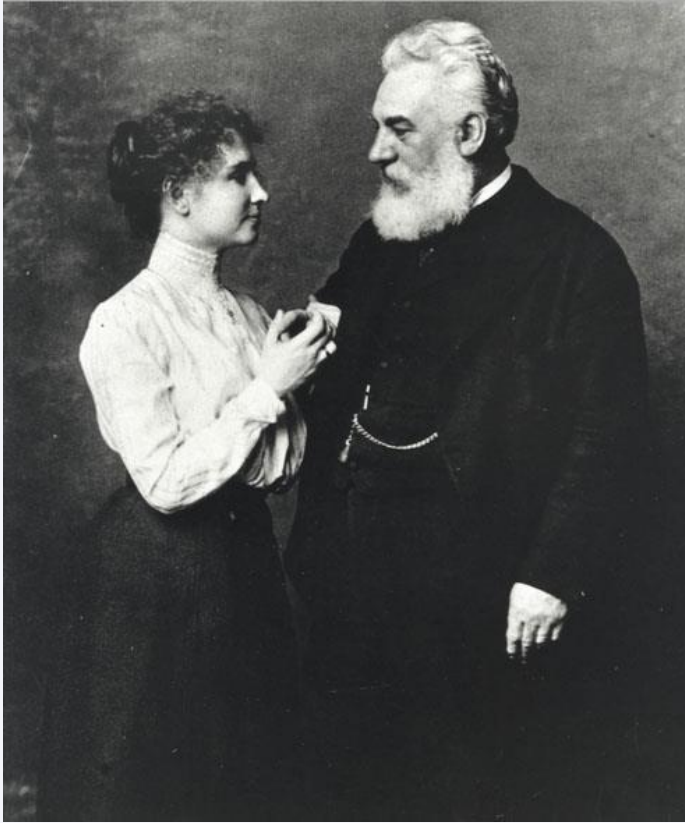


While working with his father, Alexander Graham Bell became very interested in speech and how we make sounds.

He and his brothers invented an 'automaton' - a mechanical man. Using bellows to push air through its windpipe, they could make it 'speak' a few words. Their neighbours all came to see and were amazed by it!

At the age of nineteen, Bell conducted some experiments with tuning forks, to explore how sounds are transmitted.

# Work with Deaf People



Keller and Bell

In 1871, Bell travelled to Boston in America to train teachers at the School for the Deaf.

In 1872, he opened his own School for the Deaf. His first class had around thirty pupils, including Helen Keller, who became the first deaf and blind person to earn a university degree.

# The Telephone

In the early 1870s, Bell was living and teaching in Boston, America. He spent years trying to develop a device to transmit the human voice over electrical wires.

In 1874 he began working with Thomas Watson, a skilled electrician. Together, they continued experimenting and developing a way to transmit speech.



Thomas Watson

# The Telephone

On 10<sup>th</sup> March 1876, Alexander and Thomas were working in separate rooms. Bell made the first ever telephone call, saying:

“Mr Watson,  
come here. I  
want to see  
you!”



# The Telephone



Following this success, Bell began to demonstrate his telephone in a series of public shows.

The Bell Telephone Company was set up in 1877, and by 1886 over 150,000 people in the USA owned telephones.



# His Legacy



As the telephone became more and more important, so Alexander Graham Bell became more and more famous. He received many awards, medals and honours for his invention.

There are many museums and parks named after him, and Bell's house in America is preserved as an historic site.

As Bell's wealth grew, he used some of his money to set up laboratories and funds to help other scientists and young people.

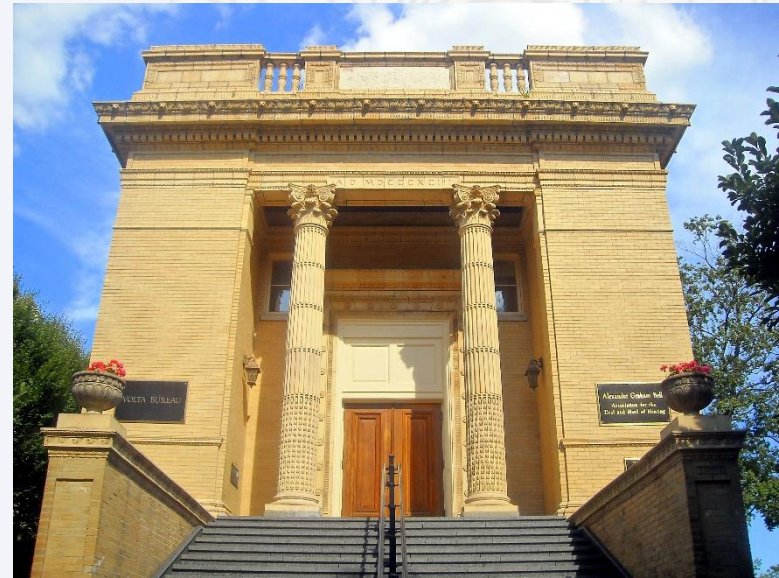
# His Legacy

He set up a centre for study and research into deafness which is still active today in Washington.

Bell founded and became president of many societies, such as the National Geographic Society.

The measures of sound, the bel and the decibel, are named after him. Bell died in 1922, aged 75.

After his funeral, every telephone on the continent of North America was silenced as a mark of respect for him.



Volta Bureau building in Washington, D.C – headquarters of the Alexander Graham Bell Association for the Deaf and Hard of Hearing