

# Computing in the Wider World

How does Computing help us in the wider world and who are famous Computing people and companies that we should know more about?

## Famous People

### Who was Alan Turing?

Alan Turing was a codebreaker and pioneer for Computer Science (1912-1954). He is famous for breaking the Enigma Code. During World War 2, Alan joined the British government's **top-secret code-breaking department** at **Bletchley Park, Milton Keynes**. The Nazis had been using a system of scrambled messages called the **Enigma Code** to communicate military information. Decoding these messages could give the British a **huge boost** in the war efforts, as they'd get to find out what their enemies were planning. Alan designed and made a machine to break the code!



<https://www.natgeokids.com/uk/discover/history/general-history/the-life-of-alan-turing/>

### Who was Ada Lovelace?



Ada Lovelace is believed to be the first ever Computer Programmer - before computers were even invented! She designed an analytical engine to tell a weaving machine how to work. The weaving machine then followed complex patterns to make a complete design. The machine not only calculate numbers but it could form letters too. It is a very early example of computer programming.

<https://kids.nationalgeographic.com/history/article/ada-lovelace>

### Who was Steve Jobs?

Steve Jobs was a pioneer of the personal computer. With Steve Wozniak, Jobs founded Apple Inc. in 1976 and transformed the company into a world leader in telecommunications. Widely considered a visionary and a genius, he oversaw the launch of such revolutionary products as the iPod and the iPhone



### Who was Tim Berners-Lee?



Tim Berners-Lee is a British Computer Scientist who is believed to be the inventor of the World Wide Web. Tim Berners-Lee worked on a system that would allow different computers to communicate with each other. In 1989 he wrote a proposal for a system that would allow researchers to share and retrieve techniques, practices, and results with each other at any time using the Internet. He created the software for the World Wide Web in 1990-91.

<https://www.natgeokids.com/uk/primary-resource/world-wide-web/>

## Who was Annie Easley?

Annie Easley was a computer programmer for NASA. She self-learnt coding languages FORTRAN and SOAP) developing the code that was used on NASA's Centaur Rocket and powering early hybrid vehicles. She was one of only 4 black workers for NASA (out of 2500 people) but when she retired from NASA in 1989, she left a legacy for others to follow.



## Possible links for teaching Computing in the Wider World in our Curriculum

### Class 2

- Ada Lovelace - How computer have changed

<https://www.bbc.co.uk/bitesize/articles/ztrq7ty>

### Class 3

- Tim Berners Lee - how the WWW works (Computing)

### Class 4

- Alan Turning - coding (Computing)

### Class 5

- Annie Easley - Space (Science)