

Why will Alan Turing feature on the £50 note?

Skills

- Know key dates, characters and events of time studied
- Confidently use the library and internet for research
- Suggest omissions and the means of finding out
- Use relevant dates and terms
- Sequence up to 10 events on a timeline
- Find out about beliefs, behavior and characteristics of people, recognizing that not everyone shares the same views and feelings

Knowledge

Alan Turing was a British **mathematician**.

Born 23rd June 1912 – 7th June 1954

He made major contributions to the fields of mathematics, computer science, and **artificial intelligence**.

He worked for the British government during **World War II**, when he succeeded in breaking the secret code Germany used to communicate.

Turing played a pivotal role in cracking intercepted coded messages that enabled the Allies to defeat the Nazis in many crucial engagements, including the Battle of the Atlantic, and in so doing helped win the war.

After the war, Turing worked at the National Physical Laboratory, where he designed the Automatic Computing Engine, which was one of the first designs for a stored-program computer.

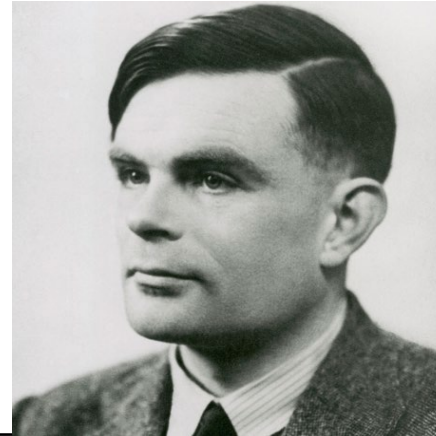
In 1948, Turing joined Max Newman's Computing Machine Laboratory at the Victoria University of Manchester, where he helped develop the Manchester computers^[14] and became interested in mathematical biology

He was never fully recognised in his home country during his lifetime, due to his homosexuality, which was then a crime in the UK, and because his work was covered by the Official Secrets Act.

In 2019 the Bank of England announced that Turing would be featured on the new 50-pound banknote. The note was expected to enter circulation in 2021.

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Subject Specific Vocabulary	
code/cipher	Words/letters replaced by symbols and numbers to keep information secret
encrypt	To turn messages into code
Enigma machine	A German machine used to encrypt messages
Bletchley Park	The headquarters of British codebreaking during WW2
cryptanalysis	deciphering/cracking codes
algorithm	A set of instructions written to solve a problem for a computer
artificial intelligence	The ability of computers and machines to think and learn
Turing machine	An early computer
discriminate	To treat someone differently based on their religion, ethnicity, skin colour, sexuality etc.



Sticky Knowledge about	
He was a British mathematician and a computer scientist.	
He played a key role in cracking coded messages at Bletchley Park, helping the Allies to defeat the Nazis in WW2.	
It has been estimated that his work shortened the war in Europe by more than 2 years, saving up to 14 million lives.	
He made major contributions to mathematics and computer science.	
He is considered the father of Artificial Intelligence (AI) and Computer Science due to his work at the University of Manchester.	
He was never fully recognized during his lifetime due to discrimination.	

Exciting Books
Super Scientists: 40 Inspiring Icons
Alan Turing - Little People, BIG DREAMS
Time Traveller Danny and the Codebreaker

