

# Alan Turing Challenge



**Pioneer of computer science and Enigma code breaker!**

Turing may be best known for his work at Bletchley Park during World War II but there's so much more to discover about this mathematician and LGBTQ icon.

For even more programme ideas check out our 'Alan Turing' board over on [www.Pinterest.com/PawprintFamily](https://www.Pinterest.com/PawprintFamily)

**#AdventureForAll**  
[www.PawprintFamily.com](http://www.PawprintFamily.com)

# Meet the FAMILY

Hi there! We're Charlotte & Jamie, the husband and wife team behind the Pawprint Family and we believe in #AdventureForAll.

It's our mission to help leaders, teachers and parents save time by providing ideas and opportunities to help them deliver everyday adventure and skills for life. We do this through our family of brands; find out more below and head to the website for your next adventure!



## PAWPRINT BADGES

Pawprint Badges provides thousands of free activity ideas and resources to help leaders, teachers and parents deliver fun and adventure.

Every activity helps you share skills for life and is linked to one of our pawesome embroidered badges. Build your collection and celebrate adventures, new skills and knowledge gained.

## PAWPRINT TRAILS

Pawprint Trails are treasure-hunt style walks around locations in the UK. Solve puzzles, track down the answers and explore everything our great country has to offer.

From historical sights to popular culture discover something new or rediscover a love for where you live then collect the badge to remember your adventures!

Whether you're looking for the perfect addition to your next family holiday or a few hours of fun with friends; each trail can be completed in a few hours or extended with our activity suggestions in to a weekend or a week's worth of fun!

## PAWPRINT TALES

Pawprint Tales are fully illustrated stories that can be enjoyed by the whole family. Join Alfie (our fox-red Labrador) on his adventures around the UK – solving puzzles, turning detective and making new friends. With twists and turns, every tale is an opportunity to discover new places, people and history without needing to leave the comfort of your own home.

Enjoy Pawprint Tales alongside your Pawprint Trails or as a standalone adventure!

## PAWPRINT TRUST

Every brand in the Pawprint Family supports the Pawprint Trust with a percentage of profits from every sale providing grants to young people. We're passionate about enabling young people to access life changing adventures.

Share your adventures and join us over on our social channels for even more adventures and a nosy behind the scenes at Pawprint HQ!



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# PAWPRINT BADGES

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**[www.pawprintfamily.com/terms-conditions](http://www.pawprintfamily.com/terms-conditions)**



# Craft

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Have a go at building or designing a machine.

Why?

Turing created a Universal Computing Machine in 1936 (now known as the Universal Turing machine) which laid the foundations for today's computers.



Create your own code; this could be using a free programme/app or as simple as creating a set of instructions (for example making a cup of tea) as a flow diagram.



Draw daisies.

Why?

There is a sketch by Alan's mother, Sarah Turing, titled *Hockey or Watching the Daisies Grow*. Alan was fascinated by the idea that patterns in nature could be simplified into a mathematical sequence and published a paper which is still referenced today.



In 1952 Alan Turing published 'The Chemical Basis of Morphogenesis' which explained the formation of patterns in nature. Have a go at creating your own patterns using potato printing or materials of your choice.



Use your imagination to create something of your choice. Alan was quoted as saying, "Those who can imagine anything, can create the impossible."



Alan Turing appears on the new £50 note. Have a look at bank notes and have a go at designing your own. Who will your note feature?



Create your own LGBT+ bracelet or jewellery based on one of the LGBT+ flag colours to show your support for those in the LGBT+ community.

Why?

Alan Turing was prosecuted for homosexual acts in 1952, at a time when being gay was against the law. In 2009 Prime Minister Gordon Brown made an official public apology on behalf of the British government and in 2013 Turing was given a posthumous pardon by Queen Elizabeth II. Following this in 2017 a new law was introduced (called the "Alan Turing Law") to pardon men (alive or dead) who were convicted of being gay.



Make a diary or journal to keep your secrets and thoughts private. Alan Turing's code-breaking work at Bletchley Park was classified until 2013!



Decorate a cup/mug and make it your own. Alan famously chained his mug to the radiator in Hut 8 at Bletchley Park to stop others from using it!





# Food

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- 💡 Make a recipe using apples; from pie to turnovers only your imagination limits you!

## Why?

Turing was found dead by his housekeeper and there was a half eaten apple on his bedside table. His death was as a result of cyanide poisoning and it was ruled by an inquest as suicide. Many say that Turing was haunted by the story of the poisoned apple in the story Snow White and that he had poisoned his own apple.

- 💡 Make your own toffee apples.
- 💡 Turing won a scholarship to King's College, Cambridge in 1935. Find a recipe and make a Cambridge Pudding.
- 💡 Alan's great grandfather was a general in the Bengal army and his parents travelled to India frequently as part of his father's job in the Indian civil service. Make or try a new dish from India.
- 💡 In his earlier years Alan Turing was schooled at Sherborne School in Dorset. Have a go at making one of the following recipes: Dorset apple cake, Portland pudding or Dorset knobs.
- 💡 Taste some Dorset Blue Vinny Cheese and compare it with Cheshire Cheese.

## Why?

Alan was schooled at Sherborne in Dorset and died in Wilmslow, Cheshire; both counties with famous cheeses.

- 💡 Cyanides are found in certain seeds and fruit stones, including apricots, apples and peaches. Make a dish from one of these fruits; from crumbles to cakes its your choice.
- 💡 Investigate the edible QR codes that can now be found on some foods, how do they work and can you create your own?
- 💡 Create an encoded message with food; you could use coloured sprinkles on cakes or make Morse code from olives on pizza! Get creative and let your imagination run wild.
- 💡 Make some salt water taffy which was invented in New Jersey, home to Princeton University where Alan gained a PhD in 1938.
- 💡 One of New Jersey's official foods is blueberry. Make a recipe including them.



# Games

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Hold your own running races and see how fast you can run.

## Why?

Alan Turing was a keen runner and came 5th in an Olympic qualifying race in 1948 running a marathon in 2 hours and 46 minutes. Alan was also known to run the 40 miles from Bletchley Park to London for meetings and often seen running along the riverside paths between Cambridge and Ely during his university days. There is an annual race in his name, the Turing Relay.



Use our free resource and have a go at Pride Pairs. Test your knowledge and see how fast you can match the terms and their definitions.



Tell a lie and see if you can convince others that it is real. The Turing Test is used as a measure for artificial intelligence. If a machine can engage in conversation with a human without being detected as a machine then it passes as it has demonstrated human intelligence.



Play a game of chess; Turing developed an algorithm for an early version of computer chess and enjoyed playing in his spare time whilst working at Bletchley Park.



Have a game of Monopoly. In 2012 a special edition of the game was released based on Turing's life.



Race to see how fast you can row a mile using a rowing machine. Alan took up rowing when he attended King's College, Cambridge.



Complete a puzzle of your choice.

## Why?

Alan Turing was quoted as saying "Codes are a puzzle. A Game just like any other."



Host your own mini Olympics in honour of Alan almost being part of the 1948 Olympic team. Alan was quoted saying "I have such a stressful job that the only way I can get it out of my mind is by running hard."



In 2002 nationwide poll on the greatest Britons of all time, Alan Turing was voted number 21 and in 2019 he topped the charts in a BBC poll being voted the greatest person of the 20th century. See how many famous people from Britain you can name in 4 minutes.
















Play some maths or coding based games or create your own game based on these subjects. Share it and play it with friends/family.



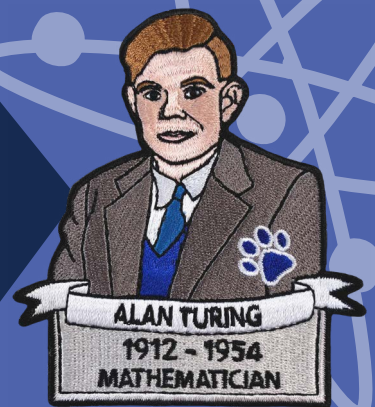
# Other

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-  Use our free Code Wheel resource to send and decipher secret messages with friends/family members.
-  Alan Turing had an IQ of 185; do a test and find out what your IQ is.
-  Watch the 2014 film *The Imitation Game* (rated 12A) based on Alan's life and his work at Bletchley Park.
-  Visit Bletchley Park where Alan worked from 1939.
-  During his time at Bletchley Park Alan broke the rules and wrote to the Prime Minister, Winston Churchill, to ask for his support with equipment and funding. Write to your local MP or the Prime Minister on a matter you find important or about a cause close to your heart.
-  On his 1st day at school Alan rode his bike 62 miles to make sure he was there on time. Complete a cycling course or enjoy a bike ride with friends/family.
-  In 1952 Alan Turing was prosecuted for being gay. Celebrate Pride Month or find out about some other LGBT+ icons. Why not complete your Pride Challenge badge?
-  Turing's Law was passed in 2017, pardoning men cautioned or convicted under historical legislation of homosexual acts. Host your own debate about a law you think should be created.
-  Visit your local rowing club or have a go at rowing. Alan participated in rowing whilst at university in Cambridge.
-  During the 1930s Alan became involved in the peace movement. Make your own peace pledge using our free resource, search 'Peace' on the website.
-  Visit Turing's statue in Sackville Park, Manchester. Alan Turing was based at the University of Manchester following his work with the British Intelligence Service at Bletchley Park.
-  Snow White was reportedly Alan's favourite tale and is said to have inspired his suicide. Read the story or watch the animated film.
-  See if you can visit a performance (or have a go at putting on your own performance) of *Breaking the Code*. The 1986 play by Hugh Whitemore is about the life of Alan Turing. It was televised in 1996 by the BBC.

## Adventure Complete?

Reward your young adventurers with their Alan Turing Challenge badge to **mark their achievements!**  
Head to the website to bag yours, download certificates and discover even more adventures!



## Create a Keepsake!

Experienced **adventure**? Made **memories**? Then it's time to create a **keepsake**! Our Pawprint Family camp blankets are the perfect place to **sew your badges** and look back on them for years to come.



## Personalise it!

Got your camp blanket? Then it's time to make it yours! Our alphabet badges are **big, bright and bold**...the perfect addition to your camp blanket, hoodies, bags and more. What will you personalise first?



## Even More Rewards!

We're all about added value here at Pawprint Family. In addition to the 1000s of **free activity ideas** and resources you'll find **loyalty stickers** in every order and you can claim Children's University learning hours too!



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