

# Volcanoes Challenge



**Turn up the heat as we get to work exploring Volcanoes...**  
Delve in to the depths of the earth and discover some red hot facts about magma, lava and volcanoes that are sure to erupt in adventure!

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

**#AdventureForAll**  
[www.PawprintFamily.com](https://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!



@pawprintfamily



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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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- 📍 Build a campfire.

Why?

The name volcano comes from the Roman name 'Vulcan' who was the Roman god of fire!

- 📍 Build a model of a volcano and create your own eruption. Use any materials of your choice for your model, from paper and card to plasticine or recycled materials.
- 📍 The largest volcano on earth is Mauna Loa, Hawaii; make a lei. Commonly found in Hawaii, a lei is a garland made up of a string of objects (most commonly flowers) that is designed to be worn.
- 📍 Make a cross section model of a volcano so you can see what's happening inside before an eruption.
- 📍 Over time lava and ash break down to create rich and fertile land on the slopes of volcanoes. Make a plant pot shaped like a volcano and use it to grow a plant/flower of your choice.
- 📍 Make a puzzle or jigsaw of a volcano.

Why?

Volcanoes are often found at the meeting points of tectonic plates. These plates are pieces of the Earth's surface (crust) that fit together like a jigsaw puzzle.

- 📍 Mix your own lava-like slime.
- 📍 Paint a picture of a volcano using materials of your choice. What type of volcano will you paint? There are 3 main types of volcano; cinder cones, composite and shield.
- 📍 Make your own lava lamp. Lava is the name given to magma (hot liquid rock inside a volcano) once it leaves the volcano.
- 📍 Use heat and make something using iron-melt beads. This change from solid to liquid and back to solid is the same as the magma in a volcano; which is molten rock that flows as lava and solidifies again to form volcanic rock.
- 📍 Decorate cone shaped, black party hats with red and orange streamers to make them look like erupting volcanoes. Why not wear them for a volcano-themed party? You could enjoy some of your foody makes too!





# Food

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- 📍 Explore state change and melt sugar to form caramel.
- 📍 Use hot, liquid sugar (lava) to make twisted/pulled sugar sweets.

Why?

Magma is the super hot, liquid rock that sits underground, inside a volcano and it's only known as lava once it breaks through the Earth's surface.

- 📍 Make 'lava' bread...ok so the official spelling is Laverbread and is a traditional Welsh delicacy but whilst they sound the same we'll take that as a win!
- 📍 Bake some 'cooled lava' rock cakes.
- 📍 Mix up some edible eruptions using a jelly and lemon juice mix, then add some bicarbonate of soda.
- 📍 Lava can reach temperatures up to 1250°C! Test the melting points of different foods such as chocolate, cheese, butter, etc.
- 📍 Make some edible planet biscuits or even a whole solar system.

Why?

Other planets have volcanoes too! The largest volcano in our solar system is Olympus Mons, found on Mars.

- 📍 10% of the Earth's active volcanoes are in Japan. Make and try some Japanese food.
- 📍 Volcanoes act like the valves on a pressure cooker; releasing gas, hot magma and ash from under the Earth's crust. Use a pressure cooker to make a recipe of your choice and better understand how volcanoes work.
- 📍 Test your ability to withstand heat by trying hot foods or chilies of increasing strength.
- 📍 Bake your own erupting volcano cake; find some inspiration on our Pinterest board or get creative in the kitchen and invent your own.
- 📍 Enjoy a fondue and make a nacho volcano filled with cheese dipping sauce.
- 📍 Make and enjoy a melt in the middle, molten lava chocolate pudding (chocolate fondant to you and me)!



# Games

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- 📍 Active, dormant or extinct? Can you correctly match the volcanoes with their classifications?

## Did You Know?

Ben Nevis, the tallest mountain in the United Kingdom, is actually an extinct volcano?! Many of our mountainous areas across the globe were created through volcanic activity.

- 📍 The loudest sound in recorded history was made by Krakatoa, Indonesia. The volcanic eruption happened at 10.02am on 27th August, 1883 and was heard over 3000km (1930 miles) away, reaching 310dB in volume. Compete to make the loudest sound you can.
- 📍 Play a game of *Don't Let The Lava Get You!* Like *What Time is it Mr Wolf?* Players step closer in a circle around the 'volcano' until the volcano erupts, shouting "eruption time". Players then run away to a safe zone and try to avoid getting caught by the lava.
- 📍 Have a game of *The Floor Is Lava* using furniture and other objects to keep your feet off the floor.
- 📍 Play volcanoes and craters.

## How?

A team game for large groups using plastic sports markers/cones. With cones spread out around the space, two teams compete to try and get as many of the cones their way up. One team is volcanoes and should try to get all the cones pointing up and the other team are craters, trying to turn the volcanoes upside down to create craters. At the end of the time the team with the most cones their way up is the winner.

- 📍 Have a game like Simon Says but create an action for each of the 3 classic types of volcano; cinder cone, composite and shield. The last player to complete the correct action is out. Alternatively for small groups, see how many actions you can do consecutively without making a mistake.
- 📍 Test your knowledge and take a Volcano Quiz, you can find some online at National Geographic and DK Find Out!
- 📍 Play a game of corners using the main types of volcano.
- 📍 Chase the lava; in two teams, like a traditional game of tag, one team is the volcano and the other is lava. When the volcanoes catch the lava the next round those lava players become volcanoes. After a few rounds you should find your volcano becomes extinct.



# Other

**PAWPRINT**  
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- 📍 Magma, liquid rock, glows orange in the heat and can be seen glowing as it flows as lava following an eruption. Visit a smithy/forge and watch metal being heated to high temperatures and glowing in the same way.
- 📍 Visit an extinct volcano near to where you live.
- 📍 Complete a jigsaw puzzle of Earth. The Earth's crust is made up of tectonic plates, that fit together like pieces of a jigsaw, and many volcanoes exist where these plates meet.
- 📍 Discover the two types of tectonic plate boundaries that are most likely to produce volcanic activity and why.
- 📍 Explore the story of Pompeii.
- 📍 Plot active volcanoes on a map, can you form any patterns or identify where the Ring of Fire is?
- 📍 Watch a video of a volcanic eruption.
- 📍 Take a trip or plan a visit to an active volcano. If you could travel anywhere, where would you go and is there an active volcano there?
- 📍 Pumice rock is the only rock known to float in water. Conduct a science experiment to see which materials float and which don't. Can you identify why this is?
- 📍 Research one volcano, its history, where it is and what that country's culture is like? Share your findings in a fun and interactive way with friends or family.
- 📍 Watch a film about a volcano.
- 📍 Act out a volcanic eruption.
- 📍 Create a news article or act out a TV news bulletin about a volcanic eruption. Perhaps you could find an historic eruption, like Pompeii, to report on.
- 📍 Approximately 350 million people live within "danger range" of an active volcano. That's equivalent to 1 in 20 people. Can you speak to someone who lives in an area close to an active volcano? What is life like for them and how does the threat of an eruption make them feel?
- 📍 Find out your own fun facts about volcanoes and share them with friends.

## Adventure Complete?

Reward your young adventurers with their Volcanoes 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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