

Weather & Climate Challenge



Some like it hot while others like it cold...

Get ready to be blown away by some weird and wonderful weather facts and discover the difference between weather and climate!

For even more programme ideas check out our 'Weather' board over on www.Pinterest.com/PawprintFamily

#AdventureForAll
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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HOW TO: Use Your Challenge Pack

**PAWPRINT
BADGES**

This Challenge Pack has been divided into 4 sections: Craft, Food, Games and Other. In order to help you provide a balanced and varied programme for your young adventurers we recommend that the following number of activities are completed by each age group:

Age 3 - 5									
Age 5 - 7									
Age 7 - 11		+							
Age 11 - 14		+							
Age 14 - 18		+							
Age 18+		+							

Craft

Food

Games

Other

PICK

Leaders, Teachers & Parents

Award yourselves a badge for supporting your young adventurers in their activities!

TOP TIPS

- Adapt activities as necessary to meet your needs.
- Add your own activity ideas or develop them into projects.
- Use what you have; don't buy in lots of new materials/equipment.
- No need to send us evidence, responsible grown-ups decide when the badge has been earned.
- One challenge badge can take as long as you like; from a few hours to days or even a full term!

Terms of Use

By downloading or purchasing this resource you agree to our terms of use as outlined below. As a husband and wife team we work hard to keep all of our resources and activity ideas available free of charge; we can only do this with your help.

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Craft

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📍 Paint with the rain!

How?

There are several ways you can create your own watery artworks using; washable markers/felt tips, water soluble crayons or using water based paint. Add colour to your paper in a pattern or just as spots then place your paper outside in the rain. Watch the colours run and merge before bringing your art inside to dry.

- 📍 In 1684 the weather was so cold that the River Thames froze solid for 2 months. Freeze paint in ice cube trays and then let them melt on to paper to create art. Alternatively you can freeze fabric dye and melt them on to a t-shirt or plain garment.
- 📍 Create a world map showing different climates using any materials you like.
- 📍 Build your own weather vane or anemometer to show the direction or calculate the speed of the wind.
- 📍 Watch the wind and make your own pinwheel using our Paper Catherine Wheel resource.
- 📍 Use cotton wool and make a cloud spotting window with examples of each different cloud type to take outdoors.
- 📍 Harness the wind and make a kite to fly.
- 📍 Decorate an umbrella and be prepared for rain.
- 📍 Make a weather mobile to hang in your home showing all the different kinds of weather.
- 📍 Create your own weather chart to record your daily observations.

Why?

Weather refers to the short-term or current conditions outside, whilst climate refers to the long-term observations, averages and patterns. Different areas of the world have different climates but the most accurate way to tell what the weather is like is to look out of the window!

- 📍 Make a sun catcher for your window.
- 📍 Take photos using the sun with light sensitive/sunography paper.



Food

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- 📍 Freeze your own ice lollies or make your own slush drink.
- 📍 Make your own raisins.

Why?

In 2003, a heatwave across Europe turned grapes in to raisins before they'd been picked from the vine! In France, temperatures reached over 37°C for more than a week in August causing the fruits to shrivel on the vine!

- 📍 Bake some fluffy meringue clouds. You could even float them on blue custard to make an edible sky.
- 📍 Spin your own candy floss clouds. Remember to take care with hot sugar and get adult help if needed.
- 📍 Bake a rainbow cake.

Did You Know?

Double rainbows are formed when light is reflected twice within a raindrop. When you next see a double rainbow take a moment to notice that the secondary rainbow, which will be a little higher and fainter than the primary rainbow, will have its colours reversed!

- 📍 What do we eat in different weathers and why? Create a menu for the summer and another for winter and compare.
- 📍 Do people eat differently in different climates? Take a look at the diet of people in contrasting climates, i.e. tropical and polar and compare. Why do you think there are differences?
- 📍 Experiment with temperature and food by heating and cooling different foods and seeing how they react.
- 📍 Taste test foods when hot and cold to see if the taste changes. What did you discover? Did the flavour change with the temperature?

Did You Know?

The combination of dryness and low pressure at high altitudes can change the sensitivity of our taste buds to sweet and salty foods by up to 30%.

- 📍 Have fun with food and make some edible weather pictures; from sunshine snacks to balmy breakfasts. Don't forget to take some photos and tag us in your shares on social media.



Games

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BADGES**

- 📍 Tell the temperature from listening to crickets and grasshoppers. See how close to accurate you can get!

How?

Yes, you read that right! We really can tell the temperature from listening to crickets. Crickets are cold-blooded so when the air temperature changes the cricket's body temperature changes with it. These changes make the cricket's muscles contract at different rates, meaning we can work out the temperature from the number of chirps! For °Celsius, count the number of chirps in 25 seconds, divide by 3 and add 4.

- 📍 Move like the weather; freeze like snow, swirl like the wind, fall like rain. Create your own actions and play like *Simon Says*.
- 📍 Play a game or two of weather BINGO!
- 📍 Make your own board game based on the weather, climate or a specific type of climate.
- 📍 Race to get dressed for different climates in a fun dice game. Each time you roll a six, add another item to your outfit. The first person to complete their outfit wins.
- 📍 Dress for the weather washing lines.

How?

In teams, take it in turns to race to and from a washing basket to find appropriate attire for different climates. Each team should have a different type of climate and there should be a selection of items in the washing baskets. Each team has a washing line and must collect a set number of items to complete their outfit. The first team to complete their washing line wins.

- 📍 Play the parachute weather game. See the Litha challenge pack for How-To.
- 📍 Have a game of weather pairs, matching types of weather or matching weather to a particular climate. I.e. snow to polar, rain to tropical etc. Use our free Weather & Climate Cards to make your own game.
- 📍 Play Twister and twist like a tornado.
- 📍 Test your power in a wind race. Make simple rafts with a small sail from recycled materials then race to make enough wind to get them from one end of the space to the other. Use a newspaper to create your wind, beating it up and down to create a breeze.



Other

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- Go cloud spotting. Which type of clouds did you see? Use your craft cloud identifier to help you.
- The coldest temperature ever recorded was -89.2°C at Vostok Station, Antarctica on 21st July 1983. Record the temperature where you live every day and see if you can identify any patterns over a prolonged period.
- Investigate freak weather events such as the Blood Rain of Kerala, India in 2001. What causes events like this?
- Discover more about the difference between weather and climate. What is the climate like where you live?
- Make your own rainbow by reflecting sunlight through a glass of water.
- Experiment and make your own snowstorm in a jar. Check out our Pinterest board for some ideas.
- Act out or create your own recording of a weather report.
- Make a cloud in a jar and look at the water cycle. Why do we get rain, sleet, snow and hail from clouds?
- Plan a trip to somewhere with a different climate to your own. What kind of weather could you expect when you were there and what would you need to pack in order to be prepared?
- Learn how to describe the weather in different languages.
- Discover some fun weather words such as *bombogenesis*, the rapid drop in air pressure causing a storm to increase quickly in intensity.
- Go singing in the rain!
- Watch a film about the weather such as *Twister*, the 1996 film (rated Parental Guidance) or *Cloudy with a Chance of Meatballs*, the 2009 family comedy (also rated PG).
- Visit a weather station to see how the weather is measured.
- Investigate climate change and take action to reduce your impact. Why not take a look at the Recycling Collection and complete some of the challenges from the Reduce, Reuse and Recycle badges?

Adventure Complete?

Reward your young adventurers with their Weather & Climate 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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