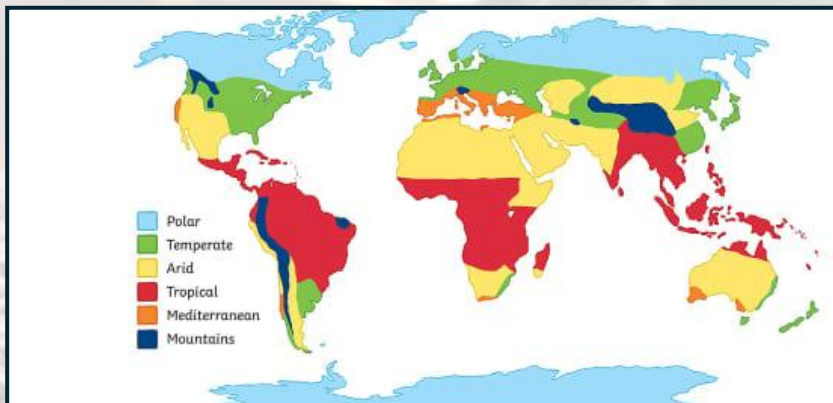


Y4 Ruby Class - Knowledge Organiser - Summer 2 - 'Weird Weather!'

Key Vocabulary





Weather	Day-to-day changes in the air and atmosphere
Climate	Long-term weather pattern of a place
Extreme weather	Very unusual or severe weather conditions
Hurricane	A powerful tropical storm with strong winds
Flood	When water overflows onto dry land
Drought	A long time with little or no rain
Wildfire	A fire that spreads in a forest or dry area
Tornado	A fast-spinning, funnel-shaped cloud touching the ground
Climate change	Changes to Earth's climate over time
LEDC	Less Economically Developed Country
MEDC	More Economically Developed Country

In this geography topic, Ruby Class will learn about extreme and unusual types of weather around the world. We will find out the difference between weather and climate, explore how climate is changing, and investigate how extreme weather affects people and places - especially in different parts of the world. We will also learn about how we can prepare for and respond to extreme weather events.



What is Climate?

Climate is the average weather for a place over a long period of time, usually over 30 years! Different parts of the world have different climates depending on how far they are from the equator (latitude) or how high they are above sea level (altitude) even the number of mountains or lakes can affect a regions climate!

Types of weather	Features	Types of weather	Features
 Drought	Caused by too little rain. In the UK minor droughts are caused by long, hot summers. Some places have little to know rainfall for years, even decades.	 Flooding	Caused by too much rain, high tides or storm surges. In some cases, flooding can be caused by cutting down too many trees or building lots of houses and roads.
 Tornadoes	Produces the strongest winds on Earth, close to 300mph! Can last for seconds or many hours. These can occur anywhere in the world but 'Tornado Alley' in North America is where tornadoes occur most frequently.	 Hurricanes	Powerful, rotating storms with thunder, lightning and rain. Hurricane is the term for a major storm affecting the Atlantic Ocean and nearby land, In the Pacific Ocean they are called typhoons and in the Indian Ocean they are called cyclones.

Geography fieldwork

In Key Stage 2, Geography fieldwork means going outside to explore the world around us. It helps us become real-life geographers by observing, recording, and asking questions about what we see. During Geography Week, we will do fieldwork to find out how weird weather, like flash flooding, has affected our local area. This will help us understand that geography isn't just about looking at maps - it's also about discovering how the world changes and how it affects the people and places we know.



Y4 Ruby Class - Homework Grid - Summer 2 - 'Weird Weather!'

You can choose as many of these tasks as you like. Remember to take photos or bring in any writing to share with the class! If you need a book or some paper to help you record your work, just let your teacher know. Some tasks are a bit more challenging - if you put in great effort, you might even earn extra diddy-dots!

You have up until Monday 14th July 2025 to complete as many as you can!

Ask the Expert! Write a list of interview questions for someone who has experienced flooding or extreme weather (e.g. in your family or local area).	Weather Diary. Keep a weather diary for 5 days. Record the temperature, wind, cloud, and rain each day. Use pictures or symbols too!	Make a Mini Poster. Create a poster explaining what to do in a storm or flood to stay safe. Use bullet points and bold headings.	Be a Weather Presenter. Watch a weather forecast and practise presenting one yourself. You can record it or perform it at home. Use a map if you can!
Climate Change Pledge. Write a pledge as a family: 3 ways you will help reduce climate change (e.g. save energy, recycle, walk more.)	Create a Rain Gauge. Use a plastic bottle to make a simple rain gauge. Record how much rain you collect in a week.	Weather Poetry. Write a poem about a storm, a heatwave or another extreme weather event. Try to include similes, personification and descriptive language.	Map Challenge. Find 3 countries that are often affected by hurricanes, floods, or droughts. Label them on a map and write 1 fact about each.
Junk Model Weather Scene. Use recycling or craft materials to make a 3D model showing a weather event (e.g. a flood, storm, or tornado).	Wild Weather Fact File. Choose one type of extreme weather and create a mini fact file. Include what it is, where it happens, and how people are affected.	Storm Story. Write a short story about being caught in a storm or flood. Describe the sounds, feelings and what happens next.	Weather Wordsearch. Create a wordsearch or crossword using 10 topic words (e.g. drought, lightning, forecast, climate). See if your classmates can solve it!