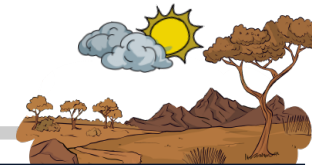


What is the difference between weather and climate?

Geography – Y4 – Lesson 1



Geographical Knowledge and Concepts

Physical Geography and Locational Knowledge
Space and Physical Processes

Resources

- PPT
- Pre-assessment worksheets
- Activity worksheets (LA, MA, HA)

- Atlases (Collin's Junior Atlas recommended)
- Challenge worksheets
- Crop production map handout

Teaching Input

- **What is the weather like on my school grounds?** – Go through the key questions and the geographical knowledge and concepts used to answer those questions.
- **Key vocabulary for this lesson** – Go through the key vocabulary and their definitions. Have any of the children heard these words before? Did they already know their meanings?
- **Pre-assessment mind map** – Children are to write down everything they know about weather and climate and how it can be measured on their pre-assessment worksheets. They can write keywords, facts and sentences or draw pictures and diagrams. Take feedback from the class and create a class mind map of the class's previous knowledge.
- **Climate or weather?** – Introduce Jada. Choose a child to be Jada and let them read what she says about climate and weather. Children are to read what Angie and Elijah say about weather and climate with their learning partners, in groups or as a class. Take feedback from the class before the answer is revealed on the following slide.
- **Weather** – Read through the information on the slide. Ensure children are clear that you can experience multiple weather conditions in one day and sometimes weather that is not typical for that season, e.g. a hot day in Autumn.
- **Why are there different climate zones?** – Children are to read what Attia and Jamie say about climate zones with their learning partners, in groups or as a class. Take feedback from the class before the answer is revealed on the following slide.
- **Climate zones** – Read through the information on the slide.
- **World climate zones** – Read through the information on the slide. Share the world climate zones map. Demonstrate how the distance from the equator impacts the climate in different locations.
- **Activity 1** – Children are to use their activity 1 worksheets to label different features on a world map. They are differentiated in three ways.
- **Let's discuss** – Children are to discuss the question on the slide with their learning partners, in groups or as a class. Take feedback from the class before the answer is revealed on the following slide.
- **How can information about weather and climate zones be used?** – Introduce Florence. Choose a child to be Florence and let them read what she says about weather and climate zones. Explain that predicting weather and climate is particularly useful for farmers growing crops. Use the map on the following slide to show the children where crops were grown originally due to climate and weather.
- **Activity 2** – Children are to define weather and climate and then research different crops and their ideal weather and climate conditions on their activity 2 worksheets.
- **Challenge** – Children are to use an atlas to locate the different cities on their challenge worksheets and predict the climate of each one.

LA

With support, children to describe the weather and climate and name the climate zones. Children to be able to explain why predicting weather is important.

MA

Children to define weather and climate and their differences. Children to name and locate the climate zones. Children to explain why the equator is hot. Children to be able to explain why predicting weather is important.

HA

Children to define weather and climate and their differences. Children to name and locate the climate zones and some countries that can be found in each one. Children to explain why the equator is hot. Children are to be able to explain why predicting weather is important and give an example.

Challenge

On their challenge worksheet, children are to use an atlas to locate the different cities and predict the climate of each one.

Key Vocabulary

weather – the daily changes in the conditions outside
climate – the usual weather over a long period
climate zones – large areas that have similar climates
meteorologist – a type of scientist that studies weather
temperature – how hot or cold something is
mild – of limited severity, not extreme

temperate – a type of climate which does not have extreme weather and has four seasons
equator – an imaginary circle around the Earth that divides it into two equal parts or hemispheres
poles – the southernmost and northernmost points of the Earth

Self-assessment

I can describe weather and climate and their differences.
I can name and locate climate zones.
I can explain why the equator is hot.
I can explain why predicting weather is important.

Assessment Questions

What are weather and climate?
What is the difference between weather and climate?
What climate zones are found across the world?
What is the equator?
Why is predicting weather and climate important?

