
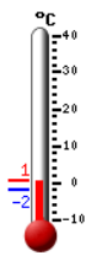





Weather Report

Geography - 28th January 2021





In our lesson today, we will be finding out about weather reports.

Summary / Temperature		Wind		Rain		Outlook											
 Dusk, Snow fall, Mostly cloudy  0.2°C Uncomfortably Cold Feels like: -3°C 24-hr difference -1.4°C ↓ <table border="1"> <thead> <tr> <th>Today</th> <th>Yesterday</th> </tr> </thead> <tbody> <tr> <td>High: 0.8°C</td> <td>4.7°C</td> </tr> <tr> <td>15:15</td> <td>13:54</td> </tr> <tr> <td>Low: -1.7°C</td> <td>-1.4°C</td> </tr> <tr> <td>03:15</td> <td>03:55</td> </tr> </tbody> </table>		Today	Yesterday	High: 0.8°C	4.7°C	15:15	13:54	Low: -1.7°C	-1.4°C	03:15	03:55	 N 13.0 km/h Gust: 13.0 km/h 3 Bft - Gentle breeze Today: 18.5 km/h 16:24 Gust Month: 31.0 mph January 20		Rain Today: 0.4 mm Rain Rate (/hr): 1.80 mm Rain Yesterday: 3.0 mm Storm Rain: 0.4 mm This Month: 45.4 mm Season Total: 45.4 mm 18 rain days in January.		Monday  Fog a.m.	
Today	Yesterday																
High: 0.8°C	4.7°C																
15:15	13:54																
Low: -1.7°C	-1.4°C																
03:15	03:55																
Humidity & Barometer		Almanac		Moon													
Humidity: 95%		Sunrise: 08:01		Moon: Waxing Gibbous													
Dew Point: -0.5°C ↓		Sunset: 16:40		 83% Illuminated													
Barometer: 995.8 hPa ↑		Moonset: 04:23															
Baro Trend: Steady		Moonrise: 12:40															
UV Index		Solar Radiation															
0.0 None		0 W/m ² (0%)															
High: 0.0 @ 00:00		High: 0 @ 00:00															



Let's Review

Do you remember the key vocabulary?

 sunshine	The bright light of the sun
 cloud	A white or grey mass of small drops of water high in the sky
 rain	Drops of water that fall from clouds in the sky
 snow	Small, soft, white pieces of frozen water that fall from the sky like rain

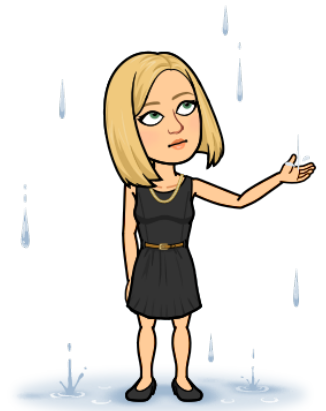
Discuss your answers with an adult

Why did you make one of these?



What results did you get?

Let's Find Out



How can we predict the weather?



Every day, measurements about the weather are collected at weather stations all over the world. All the information is sent to powerful computers that carry out millions of calculations every second.

Scientists called **meteorologists** use these computers to **predict** (**work out what will happen in the future**) the weather in the next days or weeks.

However, the weather is so complicated that sometimes even the computers get it wrong!

Let's Find Out

Meteorologists use lots of different equipment to collect **data (information)** about the weather. They then turn all the data into simple maps and charts to explain what the weather will be like.



Lots of information is collected by satellites that float above the earth.



Measuring the weather



A **thermometer** tells you the temperature. The temperature is measured in degrees and can be low or high.



A **rain gauge** measures how much rain has fallen in millimetres or centimetres.

A **compass** will tell you the direction the wind is blowing.

Wind Direction



An **anemometer** records the speed of the wind and meteorologists will say if it is light, moderate or strong.

Meteorologists use all of this equipment.










Let's Find Out

We call the **predictions** made by the meteorologists a **weather forecast**



FORECAST

SUN	MON	TUE	WED	THU	FRI	SAT
68	74	83	75	82	81	90
						
WINDY	SUNNY	THUNDERSTORMS IN THE AFTERNOON	MOSTLY CLOUDY	PARTLY CLOUDY	RAIN	SUNNY



We need to know what the weather is going to be like so that we can plan what to wear or where to go. Farmers, need to know about the weather. Can you think of any one else who needs to know what the weather is going to be like?



What did we do?

We set up a weather station at school and collected data about the weather a couple of weeks ago.

It looked like this – although we didn't grow a plant in the base!



Measuring the weather



What can we record at our weather station?

- What the sky looks like
- Rain fall
- Wind direction
- Wind speed



Wind Direction



This is the data we collected

Date	15/1/21	18/1/21	19/1/21	20/1/21	21/1/21	22/1/21
Temperature	0 °C	6 °C	10 °C	10 °C	5 °C	4 °C
Wind direction	South	South	South	South	West	West
Wind speed	Low	Low	Moderate	Moderate	Low	Low
Rainfall	0mm	1mm	4mm	14mm	2mm	2mm

Weather can vary even locally. So the School weather station information may be a bit different to what happened at your home. How does the rain fall data compare with what your gauge found?

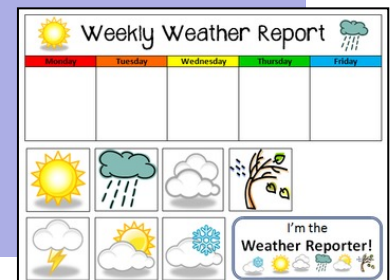


Talk to your grown up about what you notice.


Your Task – Produce a Weather Report

A **weather forecast predicts** what the weather will be in the future. We don't have the equipment to predict the weather but we can write a report about the weather we have seen recently. A **weather report tells the story of what the weather has been.**

1. Look at the information we've captured from the school weather station.
2. Imagine you are a meteorologist. Your job is to write a weather report for a T.V. news channel using the information collected from the school weather station.
3. You should include information about:
 - The temperature, such as 14°C. You might want to say whether temperatures were high or low
 - Rainfall.
 - You might want to talk about the type of weather e.g. snow or rain
 - Wind speed
 - Wind direction



Weather report planning

<p>Good morning!</p> <p>This is the weather report for</p> <hr/> <hr/>	<p>What did you use to collect data?</p> <hr/> <hr/> <hr/>
<p>Temperature -</p> <p>We experienced _____ temperatures of</p> <hr/> <hr/>	<p>Rainfall -</p> <p>We observed</p> <hr/> <hr/>
<p>Wind strength -</p> <hr/> <hr/> <hr/>	<p>Wind direction -</p> <hr/> <hr/> <hr/>
<p>Thank your viewers for watching and end your weather report.</p> <hr/> <hr/> <hr/>	

I would like you to use your planning to prepare a spoken report for your family. **I'd love it if you could send me a video of what you do.**



Name: _____

Date: _____

Weather report planning

Good morning!
This is the weather report for
Norton in Stourbridge

What did you use to collect data?
We used a weather station at St Joseph's school

Temperature -
We experienced low temperatures of between 2°C and 4°C. You definitely needed to wrap up warm.

Rainfall -
We observed 3mm of rainfall on 3 days. The rest of the days were dry.

Wind strength -
The winds were light to moderate. Most days there was only a breeze.

Wind direction -
On most days the winds blew in from the North East

Thank your viewers for watching and end your weather report.
Thank you for watching. Stay safe and dry.



The children planned a weather report, based on data they had collected during the previous week.

This is an example from last year. Can you see how extra details have been added?



Well done Year 2. You are all working so hard and I can't wait to see your weather reports.

