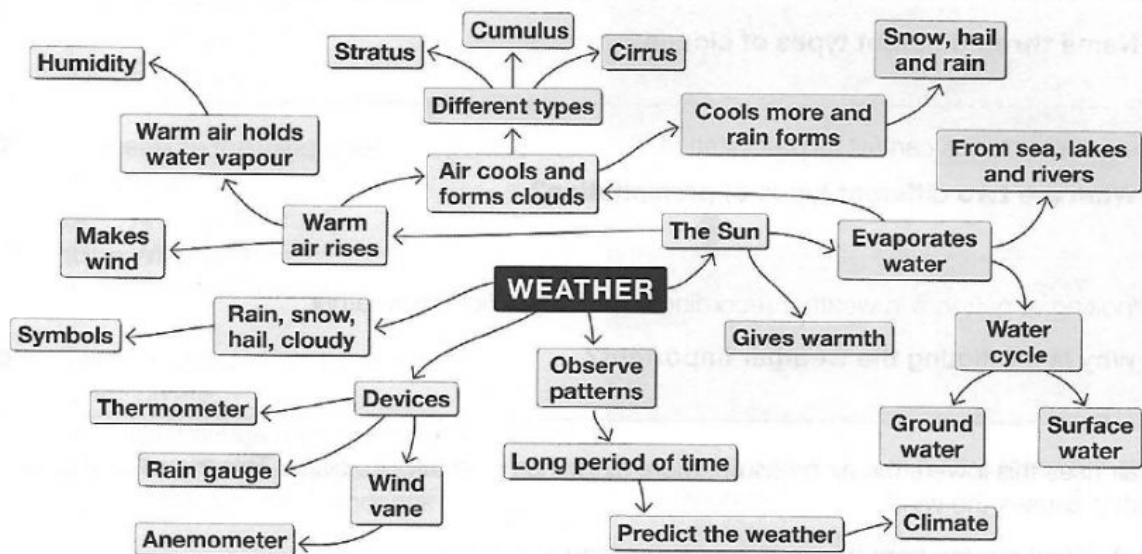


# Topic 1: Earth's weather

## What you need to know and revise



**Using the concept map:** Concept maps are a good way to get an overview of a topic. For example, follow the links from 'warm air rises' to all of the weather that this impacts on.

Weather is what is happening in the atmosphere at any one time.

### 1 Which of the following are types of weather? Circle them.

trees    wind    rocks    animals  
rain    snow    houses    temperature

#### Tip

Try to revise in a morning when you are fresh. Draw up a revision timetable.

The different types of weather can be measured.

### 2 Which weather device would you use to measure the following?

Wind direction \_\_\_\_\_ Temperature \_\_\_\_\_

The amount of rainfall \_\_\_\_\_ The wind speed \_\_\_\_\_

The types of weather can be shown by a weather symbol.

### 3 Which types of weather do these symbols represent?



a) \_\_\_\_\_



b) \_\_\_\_\_

The Sun evaporates water from the sea, lakes and rivers to give water vapour. This rises into the air. This makes the air humid.

### 4 What does humidity mean?

\_\_\_\_\_

**5 What is the difference between ground water and surface water?**

When the air rises, for example near mountains, it is cooled. Cool air cannot hold as much water vapour. Droplets of water appear due to condensation. These form clouds.

**6 Name three different types of clouds.**

The water in clouds can fall as precipitation.

**7 What are two different types of precipitation?**

By looking at patterns in weather recordings we can predict the weather.

**8 Why is predicting the weather important?**

As air rises this lowers the air pressure. More air rushes in to take its place. This movement of air is what causes the wind.

**9 a)** Wind moving from the sea towards the land is called a \_\_\_\_\_.

**b)** Wind moving from the land towards the sea is called a \_\_\_\_\_.

The amount of water vapour in the air is known as humidity. A high humidity means that there is a lot of water vapour in the air. A low humidity means that there is very little water vapour in the air. The air is very dry.

**10 Which of the following places would have a high humidity?**

**a)** Desert **b)** North and South Poles **c)** Rainforest

**11 How does humidity affect the weather?**

**Tip**

Make sure you understand important terms, for example the difference between weather and climate.

**Check that you know what these words mean:**

weather, climate, wind, sunshine, rain, snow, temperature, anemometer, wind vane, rain gauge, thermometer, evaporation, condensation, precipitation, clouds, water cycle, cirrus, stratus, cumulus

**Answers to the overview section**

1 wind, rain, snow 2 wind direction/weather vane or windsock, temperature/thermometer, amount of rainfall/rain gauge, wind speed/anemometer 3 a) sunny b) rain 4 The amount of water vapour in the air 5 Ground water is under the ground in caves, in the soil and under rocks. Surface water is above the ground in lakes, rivers and the sea. 6 cirrus, stratus and cumulus 7 Any two from snow, rain and hail 8 People can be warned of bad weather such as storms so they can stay safe and plan activities 9 a) sea breeze b) land breeze 10 c) Rainforest 11 Moist or humid air is more likely to make clouds and there is also more chance of rain if the air is humid