



Weather Data Cards

- 1** Begin the activity by posing the following questions:
 - What do you think ‘weather data’ is? What different type of weather data can you think of? (I.e. it could be observed data, forecast data or data that reflects the actual and predicted impacts of the weather)
 - Why is weather data so important for predicting the weather and climate?
 - Why is telling people about ‘weather data’ important?
- 2** Then, split everyone into small groups and give each group a ‘weather data card’, a ‘location card’, and three ‘people cards’ found on pages 3–6 (depending on the time available and ability of the group you’re working with, you might want to only give one or two cards, this will make the activity easier and quicker). Be mindful that some cards are specific to a location (i.e. beach lifeguard).
- 3** Ask each group to look at the data on their ‘weather data card’. Ask them to put themselves in the shoes of the people on their ‘people card’ in the location on their ‘location card’. Explain they



25 minutes



Groupwork



Weather data cards



Location cards



People cards

will have to think about how the weather will impact these people and how they can prepare for this weather. You can ask the following prompt questions and starter to help them:

- What does the weather card tell them about what the weather to come? The weather that I would expect to see is....
- Why is it helpful for people to know about the weather in advance? It is helpful for people to know about the weather because...
- How will the weather impact people's life and activities? The weather will affect people's lives and activities as...
- What can people do to prepare for this weather? People can prepare for the weather by....

4 Give groups 10 minutes to discuss then ask for a few volunteers to share ideas and reflect on how weather can impact people and locations differently.

Weather data cards



Heatwave

A warning of a heatwave has just been issued. What to expect:

- Temperature above 30°C for three consecutive days
- Sunny weather



Icy/cold weather/risk of snow

A cold weather alert has just been issued. What to expect:

- Mean temperature falls below 2 °C for two consecutive days
- Chance of heavy snow and / or widespread ice



Rainy/wind

Heavy rain and wind have been forecasted. What to expect:

- Heavy and prolonged rain leading to a risk of flooding in places
- Chance of precipitation: 90%
- Gusts of 45-50mph winds are expected

Location cards

Coastal town

You live in a **costal town**, near the sea. There is a little harbour and a large beach, a school, a sport centre and a public garden.



Inner city

You live in the **centre of a large city**. There are lots of people living in the city, some businesses, and a large hospital.



Isolated village in the countryside

You live in a **small, isolated village** in the countryside. There is a school, a hospital nearby and a small sports centre with a tennis court.



People cards

Construction worker (Builder)

A construction worker normally works on a building site to make buildings and other types of infrastructure.

Often construction workers work on outdoor sites and might check the weather to see what to wear, and also to see if they need to do anything to protect their equipment and materials e.g. covering up dry materials when it is raining. Some types of work might only be possible in the right weather conditions, particularly if they're working high up.

Headteacher

A headteacher looks after a school or sometimes more than one school, managing staff and overseeing the running of the school in general.

A headteacher might use the weather forecast to change the timetable of outdoor activities e.g. wet play or PE. They might also use it to check for severe weather like storms or snow, to see if they need to close the school in special circumstances.

Tennis club manager

A tennis club manager runs a tennis club facility, ensuring maintenance is done and taking bookings from customers.

A tennis club manager might use the weather forecast to see if they need to cover any tennis courts, and to predict if it will be a busy day (as tennis will normally be more popular in good weather) in order to see how many staff they will need.

People cards

Hospital administrator

Hospital administrators are responsible for the day-to-day running of a hospital, for example checking patients in and out, taking phone calls and making sure there is enough of the right equipment.

Hospital administrators sometimes check for extreme weather to see if there might be more weather-related injuries that day.

Gardener

A gardener normally designs, builds and/or maintains gardens.

A gardener might check the weather to see what to wear as they will often be outdoors. They will also consider the climate of the location they're working in before planting certain types of plants. Some types of work might only be possible in the right weather conditions. They might also be thinking about designing gardens that can cope with our changing climate.

Beach Lifeguard

A beach lifeguard helps keep people safe when they visit the beach and go into the sea.

They check the weather forecasts and weather warnings to make sure they know whether the sea conditions will be unsafe for people to swim. For example, it's important to know whether there's likely to be a strong rip tide, which means swimmers may not be allowed to go in the sea.