Exploring data visualisation

1 Explain to the group that they'll be tasked with thinking about different ways weather data can be visualised. If the group is new to this topic start by showing them the **Bringing data to life film** (hyperlinked on slide 2). Ask them what they think is meant by 'weather data'? (I.e. it can refer to observed and forecast data, as well as data that reflects the actual and predicted impacts of the weather)

2 Next show slide 3 which features examples of data visualisations that are used to communicate weather today and ask if they're familiar with any of these

Split everyone into teams of 3 - 4. Working in their groups, young people should complete the data fact-file template (found on page 3) through researching one of the following types of weather data:

- Air (or sea surface) temperature

- Atmospheric pressure

- Wind speed and direction

- Precipitation (rainfall)

15 minutes

Groupwork

Data fact-file template

Exploring data visualisation presentation slides

- Cloudiness
- Impacts of weather

The fact-file should include images of some of the data visualisation techniques, and an exploration of how the same data set can be represented in different ways. Circulate amongst the groups and ask them prompt questions to enhance their research and learning:

- What kinds of people/organisations would be reliant on the weather data they have researched and why?
- What is the benefit of visualising data as opposed to presenting it in other forms?
- What are the advantages and disadvantages of each type of data visualisation?

3 Ask the groups to present what they have found out about different weather data types

Data fact-file template

Draw or describe some different visualisations of the following types of data. There may be more than one way to represent the same data set.

Air (or sea surface) temperature	Atmospheric pressure	Wind speed and direction

Precipitation (rainfall)	Cloudiness	Impacts of weather