

# WEATHER-WISE

Use the different tools and instruction cards to measure different aspects of the weather today. Think about how the tools work and answer the questions in the spaces provided.

| Tool used:         | Used to measure: | Today's reading: |
|--------------------|------------------|------------------|
| Estimate Eighths   | Cloud coverage   | = /8             |
| Rain Gauge         | Rainfall         | = mm             |
| Spirit Thermometer | Air temperature  | = °C             |
| Dial Thermometer   | Soil temperature | = °C             |
| Anemometer         | Wind speed       | = km/h           |
| Wind Vane          | Wind direction   | = N / S / E / W  |
| Barometer          | Air pressure     | = hPa            |
| Psychrometer       | Humidity         | = %              |

**Why do we use a dial thermometer to measure soil temperature instead of a spirit thermometer?**

A dial thermometer has a strong metal spike to be pushed into soil without breaking, and the numbers are all above the surface on the dial so you can see them.

**Why do you think we take the average of the estimated eighths?**

They are educated guesses, so combining them makes a more accurate guess. ~~is more accurate~~

**Which two instruments measure features of the wind?**

Anemometer and wind vane

**Why does the wind direction tell us something about what weather might be coming?**

Different wind directions can bring different types of air (i.e. hot or cold, moist or dry).