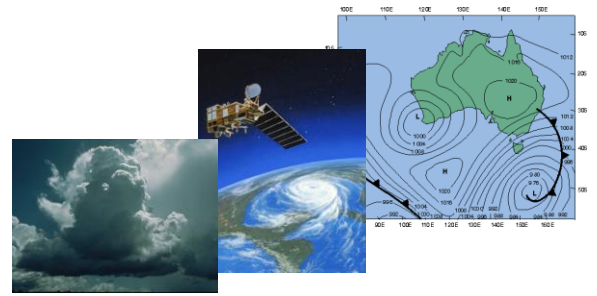


Science Scene - WEATHER WATCH



Activity 1 THE WEATHER FORECAST

Have you seen the weather forecast today in the paper?

You can learn more about the weather by studying the weather page in the newspaper and reading the daily forecasts. Understanding a weather forecast is a useful skill and will always serve you well.

- Why is the weather very important for many people?
- List the groups who are interested in the weather forecast and the possible reasons why it is important to them.
- Find the following units on the weather page: isobars, metres, hours, knots, barometric pressure and research their meanings in relation to the weather.
- Find North, South, East, and West on the map.
- What do the terms NE, SE, Northerly, Southerly winds mean?
- Use simple instruments like an outdoor thermometer, rain gauge, and an anemometer to make a daily weather chart.
- Make your own symbols to visually represent sunny, mainly fine, cloudy, showers, clearing, late change, rain, thunderstorm, windy, waves on your chart.
- List the Australian towns or cities that have the highest to lowest temperature forecast today.
- Test your skill by forecasting the weather for the week ahead and then checking to see how accurate you are.

Activity 2 TEMPERATURE SCALES

Two scales used in measuring temperature are Celsius and Fahrenheit.

If you know the temperature in one temperature scale you can use a formula to figure out what it is equivalent to in the other scale.

Here's an example.

Let's say you want to convert 24 degrees Celsius **C** into degrees Fahrenheit **F**.

Step 1: Multiply **C** by 9:

$$24 \times 9 = 216$$

Step 2: Divide 216 by 5:

$$216 \div 5 = 43$$

Step 3: Add 32 to 43:

$$43 + 32 = 75 \text{ degrees Fahrenheit}$$

Find out which countries use Fahrenheit as the scale to measure the temperature

*Note this formula is based on rounding numbers to the nearest

Try converting these temperatures from degrees Celsius to Fahrenheit.

15°C = 9°C = 40°C = 100°C = - 5° C =

34°C = 0°C = 25°C = 88° C = - 19° C =



Activity 3

REPORTING THE WEATHER

Have you ever imagined being the weather presenter on television or radio? Here's your chance!

Read the weather forecasts for each Australian capital city. Make a map showing the correct symbols and temperatures.



Fine



Mostly Fine



Possible showers



Cloudy



Hail



Rain



Snow



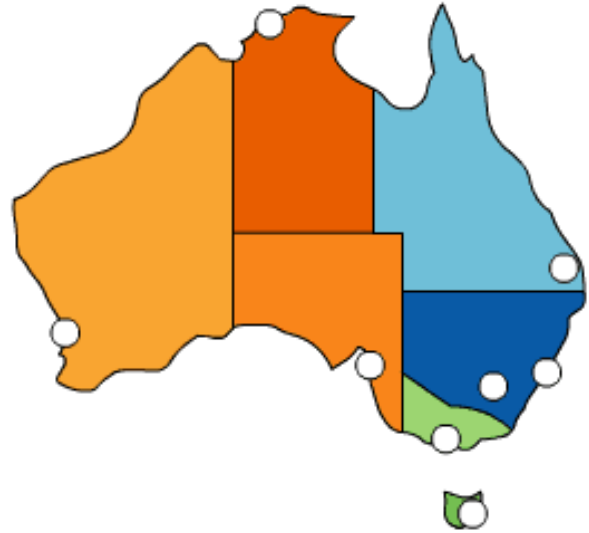
Storm



High Pressure



Low Pressure



DARWIN

A high pressure system will be moving over Darwin this afternoon. The sky will be clear and sunny with a maximum temperature of 33°.

BRISBANE

The sky over Brisbane today will be partly cloudy with a storm expected later. The maximum temperature is expected to reach 29°.

SYDNEY

A low pressure sitting over Sydney and Canberra will bring possible showers. The temperature should reach 21°.

CANBERRA

The low pressure and cloudy skies over Canberra will keep the maximum temperature down to 16°.

MELBOURNE

Even though Melbourne is expected to start the day mostly fine hail is expected later. The maximum temperature is likely to reach 23°.

HOBART

Cold southerly winds and a low pressure are likely to bring snow to Hobart and the sky will remain cloudy. The thermometer will climb no higher than 1°.

ADELAIDE

Adelaide should expect possible showers developing into rain later in the day. The wind should keep the temperature at a cool 9°.

PERTH

With the temperature reaching a high of 36°, Perth can expect a fine day with the chance of a late storm.