

# Amazing weather!

## Meteorologist Badge



In order to gain the Meteorologist Badge you must be able to complete the following tasks.

### Task 1

Be able to explain and demonstrate how the following are measured:

- wind force and direction;
- cloud type and amount;
- temperature;
- pressure;
- rainfall amount.

### Task 2

Keep a record of these weather conditions for at least two weeks:

- wind force (using the Beaufort Scale) and direction;
- weather;
- temperature;
- pressure;
- rainfall amount;
- cloud type and amount.

### Task 3

Understand at least three different ways in which clouds are formed.

### Task 4

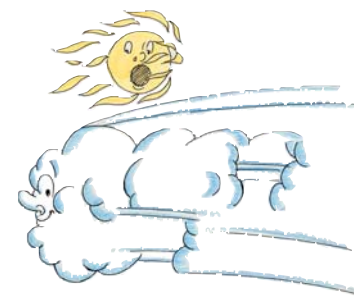
Know the typical weather produced in your own area by 'warm' and 'cold' air masses in summer and winter, noting the effects of land and sea. Understand the weather associated with a change of air mass at a 'front'.

### Task 5

Know how synoptic weather maps are produced, and be able to understand a simple map with fronts and isobars similar to those shown on television and printed in some newspapers. Relate your observations in Task 2 to these maps.

### Task 6

Understand the effects of temperature, wind and water on the human body in cases of hypothermia and exhaustion.



**Highest surface wind speed (high altitude):**  
372 kilometres per hour (km h<sup>-1</sup>), Mount Washington, New Hampshire 12 April 1934



**Highest shade temperature:**  
58 °C, Al'Aziziyah, Libya  
13 September 1922

**Did you know...**  
500 million litres of rain (500,000 tons) can fall from a single thunderstorm?



**Most sunshine, annual mean:**  
90%, Yuma, Arizona  
(over 4,000 hours)

**Did you know...**  
the average thunderstorm can release as much energy as a one megaton bomb?



**Wettest place, annual mean:**  
11,873 millimetres (mm),  
Mawsynram, India



**Driest place, annual mean:**  
0.1 mm, Atacama Desert, Chile

**Did you know...**  
in the tropics, the tops of large convective clouds can reach 18 kilometres high?



**Lowest screen temperature:**  
-89.2 °C, Vostok, Antarctica 21 July 1983



**Hottest place, annual mean:**  
34.4 °C, Dallol, Ethiopia

**Did you know...**  
a total of 16 million tons of rain, hail and snow falls every second?

**Highest surface wind speed (low altitude):**  
333 km h<sup>-1</sup>, Thule, Greenland  
8 March 1972



If you have any queries about the Meteorologist Badge, please contact The Scout Information Centre on 0845 300 1818.

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