

# WEST DEVON - BADGES AT HOME : METEOROLOGIST BADGE

- Explain how weather parameters are measured
- Record the weather everyday for two weeks
- Identify different cloud types and how they form
- Explain the effects of 'warm' and 'cold' air masses
- Explain how weather forecasts are created
- Show that you understand a synoptic weather map

[westdevonscouts.org.uk](http://westdevonscouts.org.uk)



West Devon Scouts



## How to complete your badge:

### Complete all of the sections below:

- Explain how each of these are measured: wind force and direction, cloud type and extent, temperature, pressure, rainfall and humidity
- Record the weather everyday for two weeks
- Identify different cloud types and how they form
- Explain what effects 'warm' and 'cold' air masses in the summer and winter have on your area, discuss land and sea
- Explain how weather forecasts are created
- Show that you understand a synoptic weather map, including fronts and isobars

### Some ideas

<https://www.bbc.co.uk/bitesize/guides/zw9qtfr/revision/>

<https://www.metoffice.gov.uk/binaries/content/assets/metofficegovuk/pdf/weather/learn-about/met-office-for-schools/diy-activities/cloud-spotting-diy-activity.pdf>

<https://www.metoffice.gov.uk/weather/learn-about/weather/types-of-weather/clouds/cloud-spotting-guide>

<https://www.metoffice.gov.uk/weather/learn-about/how-forecasts-are-made>

[https://www.youtube.com/watch?v=wL\\_FFK\\_HbjY&feature=youtu.be](https://www.youtube.com/watch?v=wL_FFK_HbjY&feature=youtu.be)

<https://www.metoffice.gov.uk/weather/maps-and-charts/surface-pressure>

### Explain how each of these are measured: wind force and direction, cloud type and extent, temperature, pressure, rainfall and humidity.

For this section you need to explain how everything listed above is measured. Use the links below to find out how each thing is measured and write it in the box below.

### Useful links:

<https://www.bbc.co.uk/bitesize/guides/zw9qtfr/revision/>

**Record the weather every day for two weeks.**

For this section you need to record the weather every day for two weeks. Use the table below to record all of your information that you collect each day. You could use a thermometer to record the temperature at the same time each day or a water gauge to record the rainfall. When recording the information try to collect the results at a similar time each day as this could affect the data.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

**Identify different cloud types and how they form.**

For this section you need to identify different cloud types and how they form. To do this use the first link below to go cloud spotting, the second link shows the different types of clouds and how they are formed. While cloud spotting, use the box below to write down which cloud types you have seen.

**Useful links:**

<https://www.metoffice.gov.uk/binaries/content/assets/metofficegovuk/pdf/weather/learn-about/met-office-for-schools/diy-activities/cloud-spotting-diy-activity.pdf>

<https://www.metoffice.gov.uk/weather/learn-about/weather/types-of-weather/clouds/cloud-spotting-guide>



**Explain what effects 'warm' and 'cold' air masses in the summer and winter have on your area. Consider both land and sea.**

For this section you need to explain what effects 'warm' and 'cold' air masses have on your area at different times of the year. Research the different effects, using the link below, and write your findings in the box below.

**Useful link:**

<https://www.metoffice.gov.uk/weather/learn-about/weather/atmosphere/air-masses/types>

**Explain how weather forecasts are created.**

For this section you need to explain how weather forecasts are created. There is a short video linked below which explains what information you need and how weather forecasts are created. After you have watched the video use the box below to write your own weather forecast.

**Useful links:**

<https://www.metoffice.gov.uk/weather/learn-about/how-forecasts-are-made>

**Show that you understand a synoptic weather map, including fronts and isobars.**

For this section you need to show that you understand a synoptic weather map. Use the link below which explains how synoptic weather maps work. After you have watched this video look at the second link which shows a synoptic weather map and try and identify whether we are going to have settled weather or unsettled weather.

**Useful links:**

[https://www.youtube.com/watch?v=wL\\_FFK\\_HbjY&feature=youtu.be](https://www.youtube.com/watch?v=wL_FFK_HbjY&feature=youtu.be)

<https://www.metoffice.gov.uk/weather/maps-and-charts/surface-pressure>

**Once you have completed your challenge, upload this completed form and any photos to Online Scout Manager under 'Badges' and click the 'Meteorologist' Badge. Then click 'Complete at Home' and submit your evidence.**

**Good Luck!**