**Depressions – a mid latitude low pressure storm system**

1. Try to organise the information below into a logical order.

|  |  |
| --- | --- |
| 1. **The air flowing in at the ground is slowed down by friction at the Earth’s surface but the air spreading out at the top is not.**
 |  |
| 1. **The rising air hits the top of the atmosphere and spreads out.**
 |  |
| 1. **This means it’s easier for air to leave the area than to come in.**
 |  |
| 1. **Air flows in at the ground to replace the rising air.**
 |  |
| 1. **We end up with less air above the Earth’s surface. This is Low pressure.**
 |  |
| 1. **First, there are some places in the atmosphere where the air is rising. This can happen if the air is heated at the ground.**
 |  |

1. Now add the letter of the information to a logical part of your diagram

**Where do depressions form?**

Write a paragraph on where depressions form relative to the Global Atmospheric Circulation and the UK.

**Video 1**

1. What happens when warm water meets cold water in the experiment?
2. How does this represent air in the atmosphere?

**Video 2**

1. What is a weather front?
2. Complete the table below

|  |  |  |
| --- | --- | --- |
|  | **Warm front** | **Cold front** |
| Situation (complete the sentence) | The warm air is “stronger” than… | If the cold air has the upper hand… |
| How shown on a weather map (diagram) |  |  |
| What happens at the front |  |  |
| Weather features associated |  |  |
| Pressure is… |  |  |

**The weather in a depression**

Complete the table as the video plays.

**You will need to work from the right column to the left!**

And ends here!

Video starts here

Work this way!

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | COLD SECTOR20:00**COMPLETE LAST** | COLD FRONT18:00**COMPLETE FOURTH** | WARM SECTOR16:00**COMPLETE THIRD** | WARM FRONT14:00**COMPLETE SECOND** | AHEAD OF WARM FRONT 08:00 - 12:00**COMPLETE FIRST** |
| Air mass |  |  |  |  |  |
| Temperature |  |  |  |  |  |
| Cloud  |  |  |  |  |  |
| Precipitation |  |  |  |  |  |
| Wind Speed |  |  |  |  |  |

**Depressions – What impacts do they have?** Watch the 2 videos

1. What weather do depressions like Storm Desmond of 2015 bring to the UK?
2. What hazards does this bring with it? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_