|  |  |  |  |
| --- | --- | --- | --- |
| **Weather element** | **Instrument** | **Units** | **Image** |
| **Air pressure** |  |  |  |
| **Cloud cover** |  |  |  |
| **Precipitation** |  |  |  |
| **Temperature** |  |  |  |
| **Wind direction** |  |  |  |
| **Wind speed** |  |  |  |

**Weather Variables and How we Measure Them**

## Weather stations – what they are and where to place them

1. Label the image of a weather station, which instrument do you think measures;
2. Temperature (digital thermometer)
3. Wind speed (Anemometer)
4. Wind direction (Wind vane)
5. Rainfall (via a rain gauge)

2. Why do you think that the thermometers are kept within a slatted screen?

3. Attempt the extension activities

Extension - What is this and why is it needed?

Extension – what do you think is held in this box?

A close up of a light pole

Description automatically generated

**Where to place a weather station**

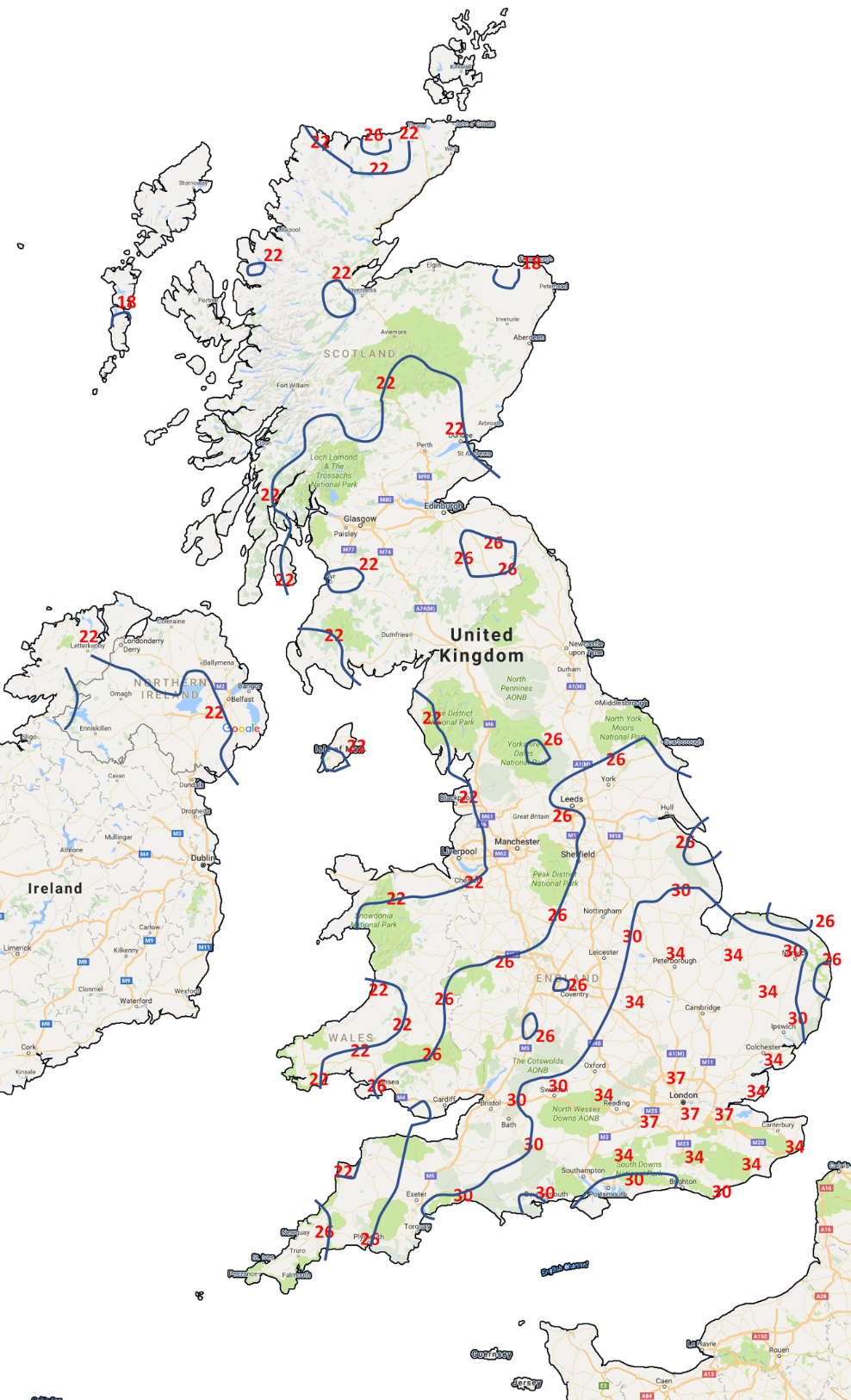
Where would you place a weather station at Reading University and why?



Image source: Google Maps with CNES / Airbus, Getmapping pls, Infoterra Ltd & Bluesky, Landsat / Copernicus, Maxar Technologies

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site** | **Level ground** | **No trees that influence measurements** | **No buildings that influence measurements** | **In a Frost Hollow?** | **Close to water source which affects humidity measurement** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |
| **4** |  |  |  |  |  |
| **5** |  |  |  |  |  |

I have selected site because

**Drawing isotherms**

1. **Complete the map by adding the 34°C and 37°C Isotherms**
2. **Describe your map – what does it show about temperatures in the UK? You can use the sentence starters below and place names to help**

My map shows me that…

The hottest temperatures can be found….

As you progress North…

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