**Year 7 Weather and Climate Test**

Name Form Score /40

1. **Contrast** (what is the difference between) the terms weather and climate

**(3 marks)**

1. **Identify** 3 ways that our school site and/or buildings can affect the weather. Label them accurately on the map.

**(3 marks)**



1. Match the weather characteristic with the correct weather measurement instrument in the table. One has been done for you.

**(3 marks)**

|  |  |  |
| --- | --- | --- |
| Weather element |  | Instrument |
| Air pressure |  | Maximum and minimum thermometer |
| Cloud type |  | Rain gauge |
| Precipitation |  | Wind vane |
| Sunshine |  | Sunshine recorder |
| Temperature |  | Anemometer |
| Wind direction |  | Human sight and identification chart |
| Wind speed |  | Barometer |

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 | Mountainous |
| 6 |  |
| 7 |  |

**Study carefully the map showing the World’s climate zones**

1. **Identify** the climate zones at each number on the Key using the names from the list below. One has been done for you.

Map

Description automatically generated**(3 Marks)**

1. Polar​
2. Dry
3. Mountainous​
4. Tropical​

**The UK**

1. Mediterranean​
2. ​Temperate​
3. Continental​
4. **Name** the climate zone of the UK

**(1 Mark)**

1. Complete the climate graph for London by:
2. Completing the rainfall bars for October, November and December using the right-hand axis

**(3 marks)**

1. Adding the 3 missing temperature values for October, November and December using the left-hand axis

**(3 marks)**

1. Finishing the temperature curve freehand by joining the dots or crosses together

**(1 Mark)**

1. Adding an appropriate title

**(1 mark)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | January | February | March | April | May | June | July | August | September | October | November | December |
| **Avg. Temperature (°C)** | 4.9 | 5.0 | 7.2 | 9.7 | 13.1 | 16.6 | 18.7 | 18.2 | 15.5 | 12.0 | 8.0 | 6.0 |
| **Precipitation (mm)** | 56 | 39 | 46 | 45 | 49 | 50 | 48 | 53 | 56 | 60 | 61 | 58 |

**Air masses that affect the UK**

Map

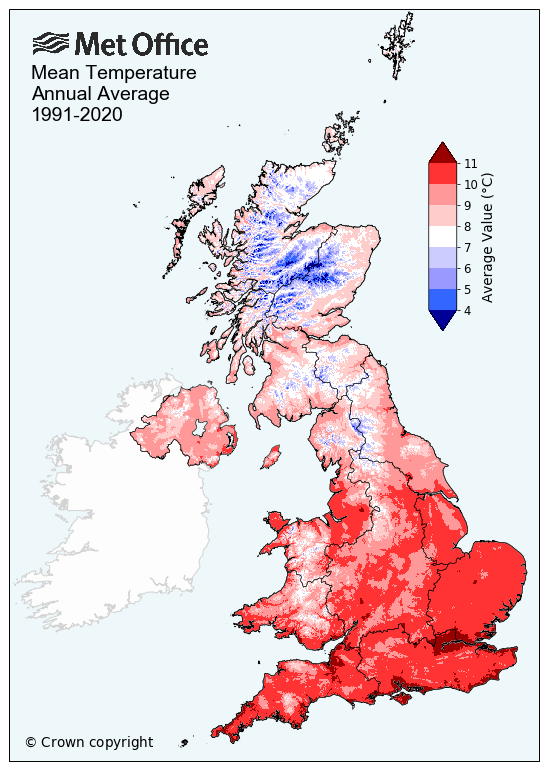
Description automatically generated

1. **Identify** the Air masses that affect the UK in the table below.

**(5 Marks)**

|  |  |
| --- | --- |
| Air mass | Letter |
| Tropical maritime |  |
| Tropical continental |  |
| Polar continental |  |
| Arctic maritime |  |
| Polar maritime |  |

**A map of UK Mean Temperature Annual Average 1991 - 2020**



1. Which statement about the temperature map is false? Tick the box.

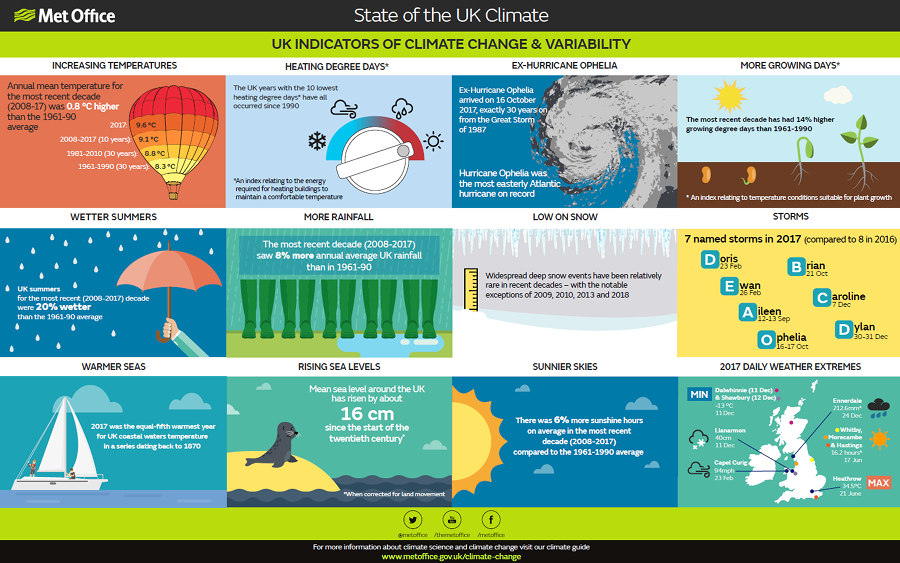
|  |  |
| --- | --- |
| 1. The upland or highland areas of the UK are colder. |  |
| 1. There is a big difference in temperature between the West and the East of the UK. |  |
| 1. The further south you are in the UK the warmer it generally gets. |  |
| 1. Coastal areas tend to be slightly warmer than inland areas for the same latitude. |  |
| 1. Major cities like London tend to be slightly warmer than the surrounding countryside areas. |  |

**(1 Mark)**

1. **Explain (give reasons for)** the patterns on the temperature map. You could mention air masses, ocean currents, the impact of latitude and/or prevailing winds in your response.

**(5 Marks)**

**Study the figure below carefully, about the impact of climate change on the UK**



1. Using the infographic and your own knowledge, will climate change offer the UK more opportunities than challenges? **Justify your view with evidence.**

**(8 Marks)**