

The following questions will help you to investigate how and why **temperatures** vary due to the effects of **continentality** and the different characteristics of **land** and **sea**.

1. Define **continentality**:
.....
.....

2. Circle or underline the correct answers below and then write a brief explanation .

On a **large scale** temperature can be influenced by the effect of **continentality**

a) in the summer land will heat up **faster/slower** than sea.

Explanation:
.....
.....

b) in the winter land will heat up **faster/slower** than the sea

Explanation:
.....
.....

On a **local, daily scale** temperature can be influenced by the different characteristics of land and sea.

a) during the **day** the land will heat up **faster/slower** than the sea

Explanation:
.....
.....

b) during the **night** the land will cool down **faster/slower** than the sea

Explanation:
.....
.....

3. Use the [MetLink website](#) to find 4 places in the **UK, Europe** or **America** which are at roughly the same **latitude**. One place should be near to the coast and the other three at varying distances inland.

Complete the table below:

Use [MetLink website](#), [maps](#), [database](#), atlas and other websites to find temperature figures and distances from sea.

Name of place	Local time	Temp	Distance from sea	Latitude eg 52 N	Altitude

4. Use your knowledge of **continentality** to **explain the differences** in temperatures between the four locations.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

5. Briefly describe any **other factors** which could explain the **variations** in temperature between the four locations.

.....

.....

.....

.....

.....