



Climate

Climate: Weather for a particular area averaged over a long period (30 years at least)

Heat Capacity: How long it takes to heat up or cool down something

Water has a high heat capacity.

The ocean water is warmer than the land generally during the fall and winter. This makes the winters warmer on the coast.

During the summer the ocean is generally colder than the land. This makes the summers colder on the coast.

The oceans **moderate** the coastal climate.

When moist ocean air reaches a mountain it often condenses and falls as rain, this can cause **rain shadows**. These are areas on the other side of the mountains which get very little precipitation.

Note check:

1. Explain in your own words what is meant by “oceans moderate coastal climates.”
2. Which has higher heat capacity, the ocean or the land?
3. What is the difference between weather and climate?

Activity 11-7 on page 433: #1-4

On the same piece of paper answer questions
#2,#7, and #10 from pg 435

Once finished do any missing assignments