

Windward Investment Management Case Solution

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In the previous activities, you have learned some factors that affect climate namely latitude and altitude.



SUMMIT

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Now we will discover other factors that influence climate.

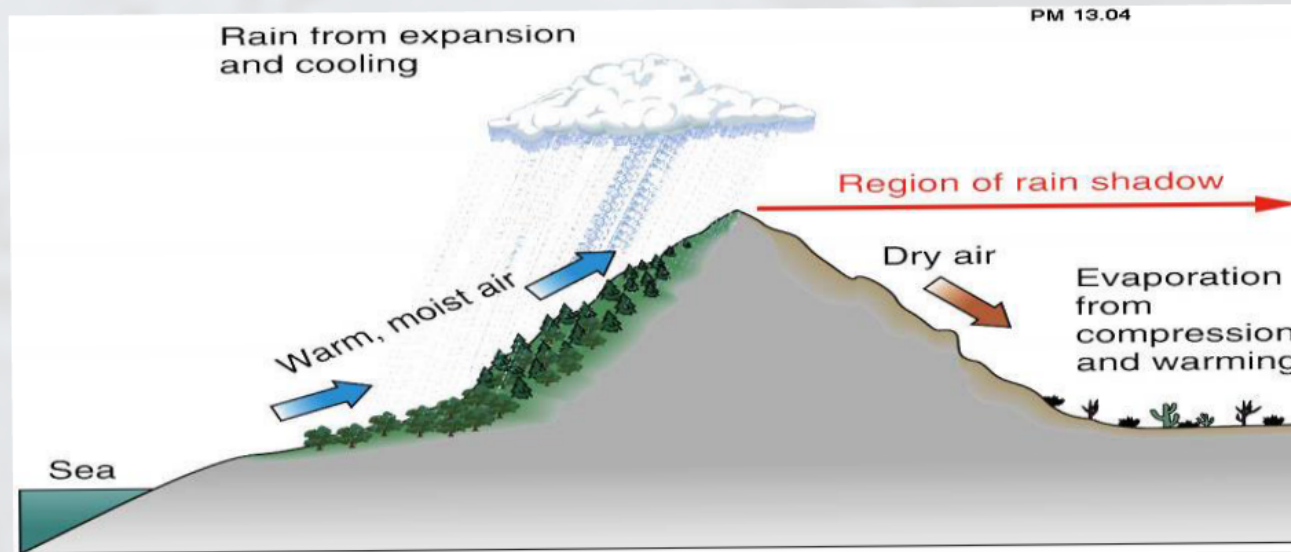
TOPOGRAPHY

Topography is another factor that affects the climate of a certain place.

One of the topographic features of an area is **mountain**.

Mountainous areas greatly affect the amount of precipitation in a certain region.

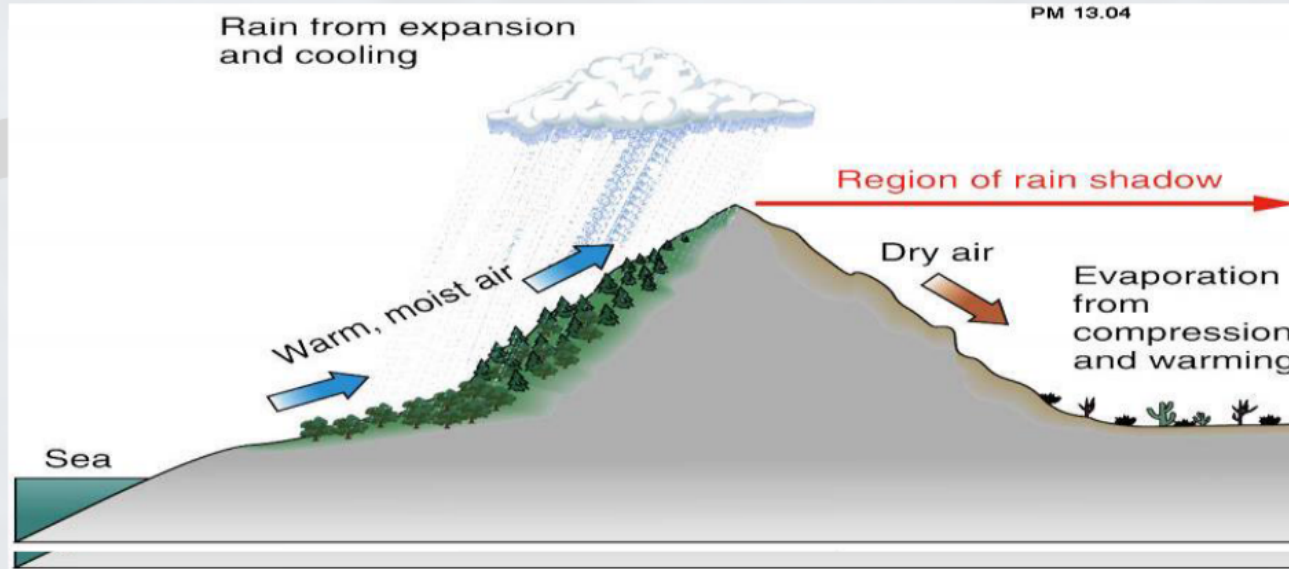
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The picture shows the two sides of the mountain.

One side is facing the wind and has low temperature.

Clouds are forming here due to the condensation of water vapor. This formation of clouds develops to become rain.

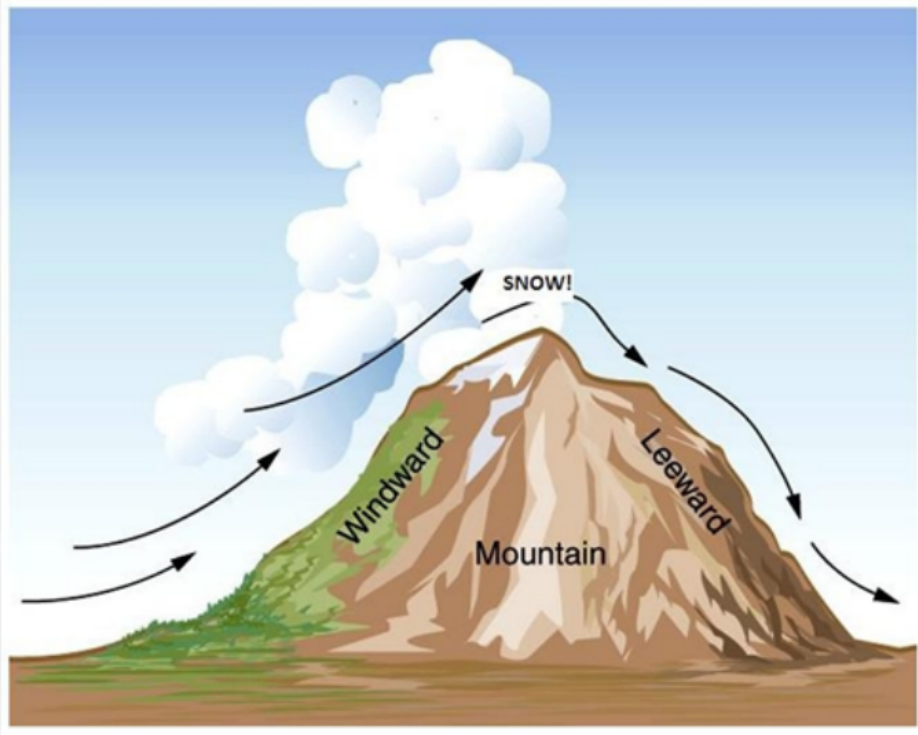


On the other side of the mountain, there is no cloud formation.

The temperature is high and precipitation does not happen.

This results in the formation of a dry and warm region.

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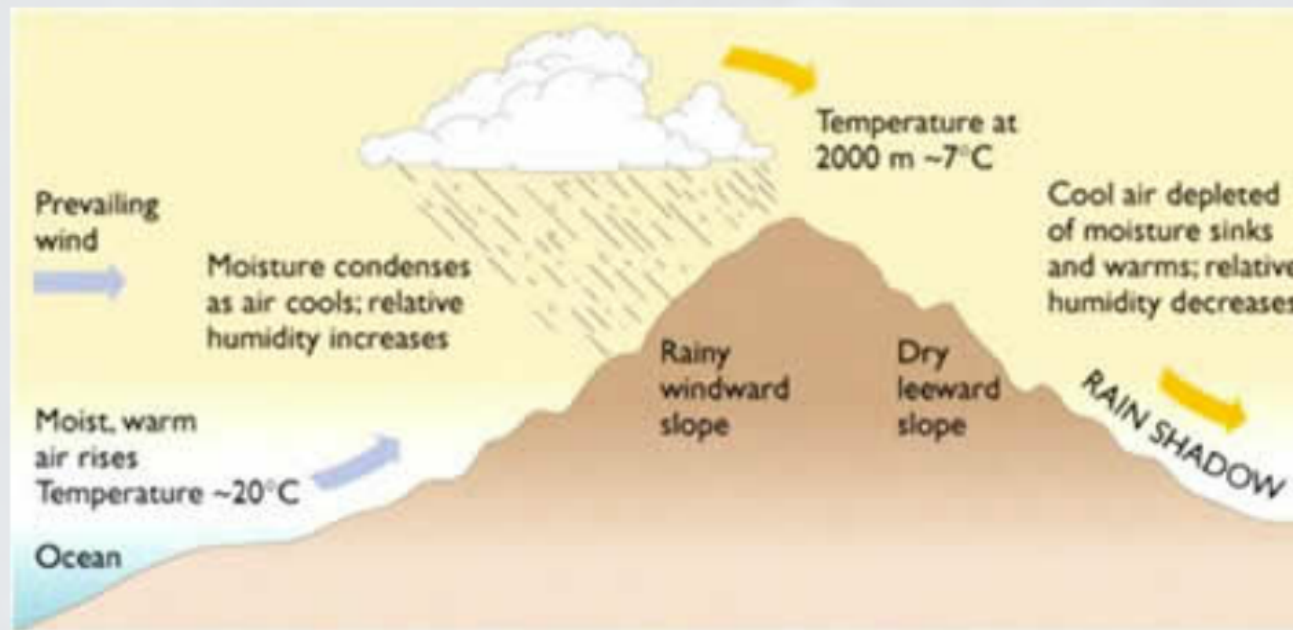


The area in which the wind blows is called the **windward side**.

Here, the wind is blocked by the mountain, forcing it to move upward.

As it moves up, the water vapor condenses and forms clouds. This will result in precipitation in the form of **snow, sleet, hail, or rain** on the windward side.

OROGRAPHIC PRECIPITATION



Orographic precipitation occurs as a warm air mass rises as it moves over a mountain causing precipitation to fall on the windward side of a mountain.

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