The Great Moderation, Dead or Alive?



specific heat capacity. The quantity of heat required raise the temperature of a substance by one degree Celsius

climate: weather conditions ocean; vast body of salt water

blood: circulates in the arteries and veins of humans and other vertebrate animals, carrying oxygen to and carbon dioxide from the tissues of the body.

cypotoplasm: between the cell membrane and nucleas

cells: smallest unit of an organism

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Why water affects temperature

water regulates temperature due to the

It takes a great deal or energy to break down hydrogen bonds which is why boiling points of water are high and why it has a high specific hea capacity. Thecasesolutions.com

How Water moderate temperature of the Earth

Oceans have great heat capacity because the specific heat of water is greater than the roll.

moing of the upper ocean results in m water mass being heated than land, it then causes land to heat and cool mon rapidly compared to oceans Thecasesolutions.cor

How water can moderate the temp of

Our cells are filled with liquid water in order for them to work properly.

> Our body temperature is difficult to change quickly because of this.



Example or water moderation.

on hot days sand on the beach is hot but water still feels cool.

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The Great Moderation, Dead or Alive?

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How Water moderate

heat of water is greater then dry soil

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Why water affects temperature

water regulates temperature due to the hrydrogen bond between water molecules.

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How Water moderate temperature of the Earth

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continued

tempeature of land near water is more moderate. It keeps the temperature a narrow range. And the bigger the body of water, the more moderate the temperature.



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contined

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Heat can be absorbed and stored in surface layers of the oceans

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near the equater there is a lot of solar raditation but ocean current transfer heat to higher latitudes contined

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How water can moderate the temp of individual organisms

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continued

seas, lakes, and riviers maintain more constant temperatures then air. That means the animals can liv in water year round. They do not have to adapt to climate change.