Lesson1.notebook February 23, 2015



Feb 22-1:49 PM

Weather Dynamics Weather Dynamics is the study of how the movement of water and air causes weather patterns. The main components of Earth that affects weather are: 1) the atmosphere 2) the land forms, and 3) water in any form (solid, liquid and vapor). **Troposphere** **Tro

Oct 19-3:59 PM

What's the difference between weather and climate?

But seriously...

Weather - is the set of environmental conditions encountered from one day to the next.

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Climate - is the set of environmental conditions averaged over many years.

ex.

Areas of the Earth...

Tropical Region (Tropics) - region located between the Tropic of Cancer and the Tropic of Capricorn.

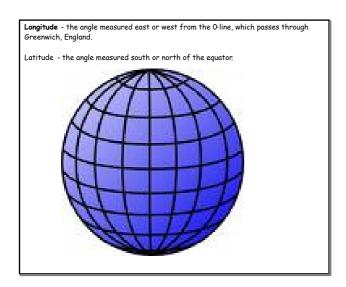
Polar Regions - Region north of the Arctic Circle and the region south of the Antarctic Circle.

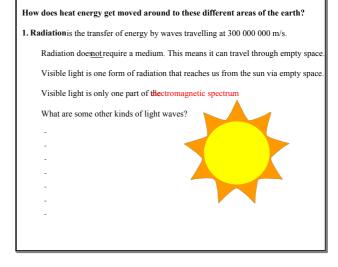
Mid-latitude Regions - Regions between the tropics and the polar regions.

Special Lines of Latitude

Tropic of Cancer23.5 North latitude Tropic of Capricorn 23.5 South latitude Arctic circle 66.5 North latitude Antarctic circle 66.5 South latitude

Feb 23-9:17 AM Oct 19-4:01 PM





Feb 23-9:19 AM Oct 19-4:08 PM

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THE ELECTRO MAGNETIC SPECTRUM

Wavelength (metres)

Radio Microwave Infrared Visible Ultraviolet X-Ray Gamma Ray

103 10-2 10-5 10-6 10-8 10-10 10-12

Frequency (Hz)

104 108 1012 1015 1016 1018 1020

Sep 17-12:15 PM Oct 19-4:11 PM

2. Conduction
...is the transfer of energy through the collision of particles in a solid.

A pan on a stove element heats up by conduction.

Some materials are better conductors of heat than others.

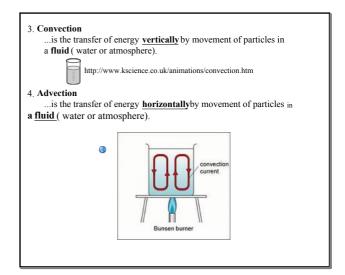
Metals are generally better conductors than materials like rock, sand, wood.

Pan handle is an insulator and doesn't conduct heat very well.

in the pan by convection.

The hot soup rises, Cool soup falls to take the hot soup's place.

Heat energy from the stove is transferred to the pan by conduction.



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