

STAAR Science Tutorial 30

TEK 8.10A: Solar Energy & Convection

TEK 8.10A: *Recognize that the Sun provides the energy that drives convection within the atmosphere and oceans, producing winds and ocean currents.*

- Energy from the Sun travels through space to Earth as **radiant (electromagnetic) energy**. This form of energy does not need matter to be transferred from one place to another. See STAAR Tutorial 23: Energy Forms and Conversion for a detailed discussion of radiant energy.
- When radiant energy reaches Earth's atmosphere and the surface of Earth, it is either absorbed and converted to thermal energy, or reflected back to space. About 50% is absorbed and converted at the Earth's surface, and 15% is absorbed and converted by the Earth's atmosphere. The rest (35%) is reflected back to space and thus does not heat the Earth.
- The molecules in the matter absorbing the radiant energy begin to vibrate faster—what we sense as heat. Not all substances are heated by radiant energy. Most of the gases in the atmosphere, such as nitrogen, oxygen and argon (99.9% of the atmosphere) are transparent to radiant energy, and do not heat up as the radiant energy passes through them. Only the "**greenhouse gases**" such as water vapor, carbon dioxide, methane, ozone and CFCs gain thermal energy when struck with radiant energy.
- The Earth radiates its stored energy back to space as infrared radiation, at almost the same rate as it absorbs radiant energy from the Sun. In this way, the Earth's average temperature stays nearly constant. However, during the last 100 years, the amount of radiant energy that the Earth absorbs has risen slightly, because of the increased amount of greenhouse gases in the atmosphere. This means that the Earth's average temperature is now slowly rising. See Tutorial 54: Environmental Change for a description of the causes and effect of climate change.
- The lowest layer of the atmosphere, the **troposphere**, is where all weather occurs and almost all of Earth's life resides. Because most of the radiant energy coming from the Sun is absorbed at the Earth's surface, temperatures near the surface are usually the warmest. Air temperature in the troposphere typically drops about 6.5°C with every 1000 meters gain of elevation.
- Thermal energy at the surface of the Earth can be transferred to air near the surface by the process of **conduction**. In conduction, the molecules of the water or land at the surface vibrate and touch the air molecules next to them, causing the air molecules to also vibrate. In this way, the air becomes as warm as the surface.
- When the air molecules next to the Earth's surface become warmer and vibrate more quickly, they take up more space (by bouncing off one another more quickly) and thus become less dense.

Staar Science Tutorial 39 Answers

George A. Khachatryan



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