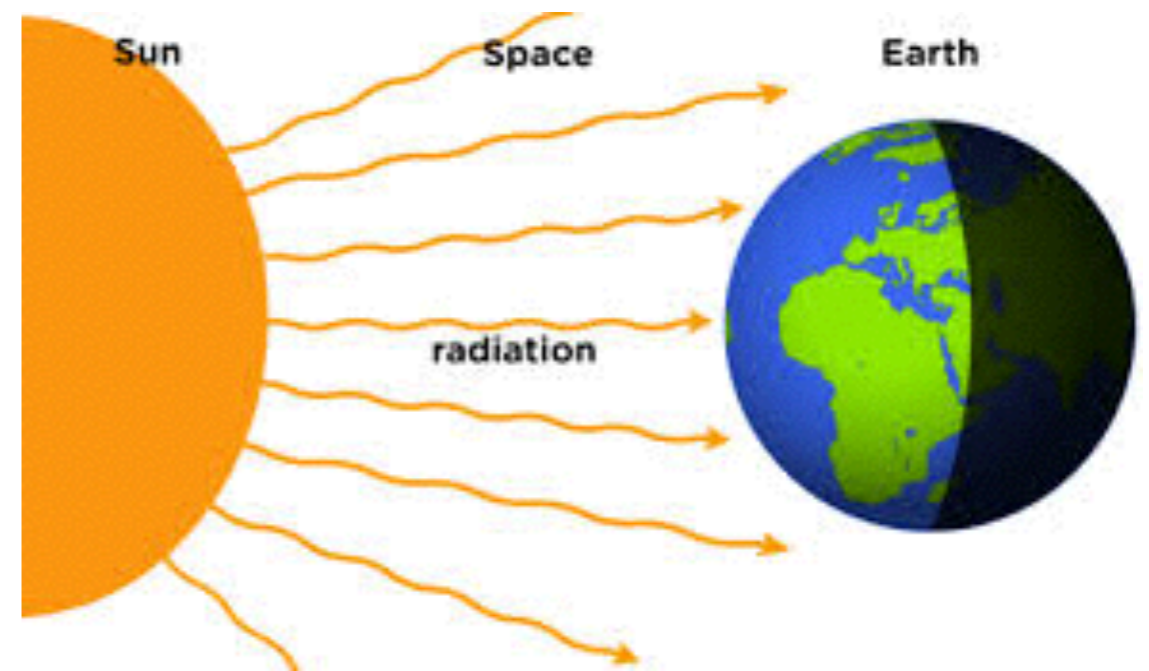


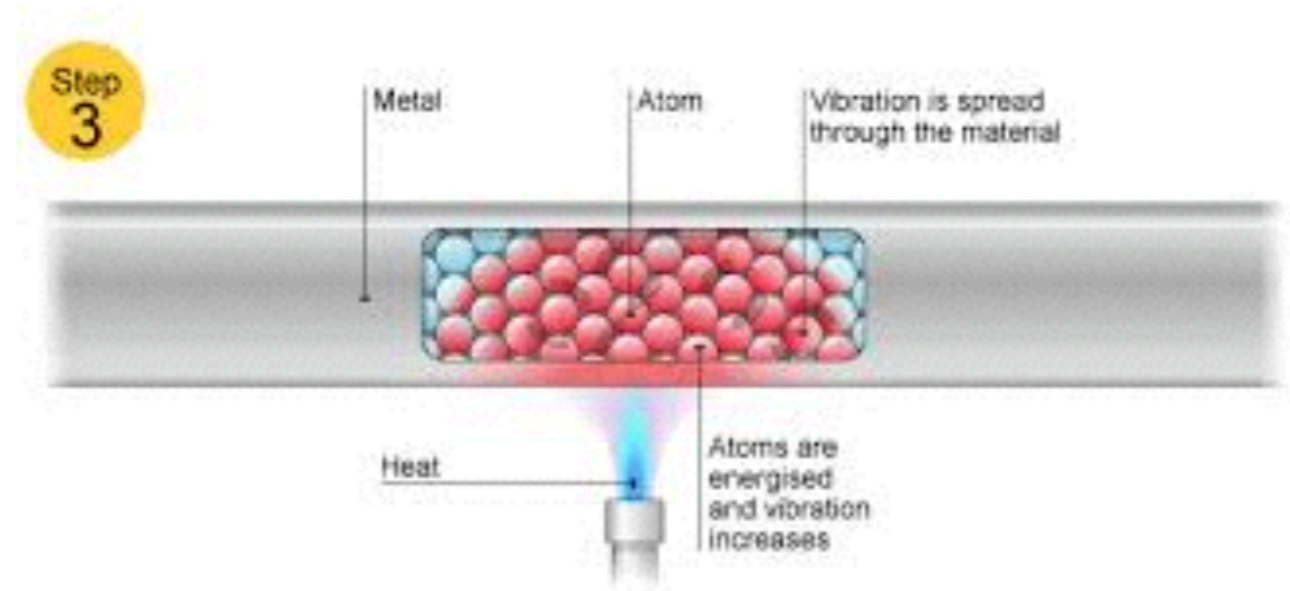
# Radiation

- **Definition:** The transfer of energy as electromagnetic waves or empty space.
- **Example:** The Earth receives most of its thermal energy from the sun by radiation.



# Conduction

- **Definition:** The transfer of thermal energy from one material to another due to direct contact.
- **Example:** Touching a spoon that is sitting in a hot bowl of soup and feeling its heat is a result of conduction.

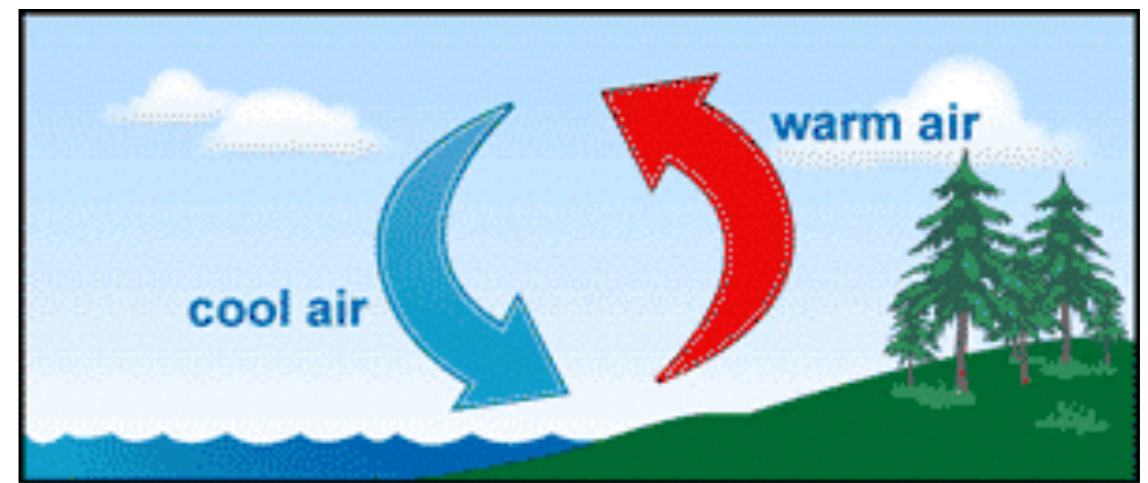


# What is Convection?

- **Definition:**

Convection is the transfer of thermal energy by circulation or movement in a liquid or gas.

- **Example:** Warm water in the ocean rises and cold water sinks due to convection.



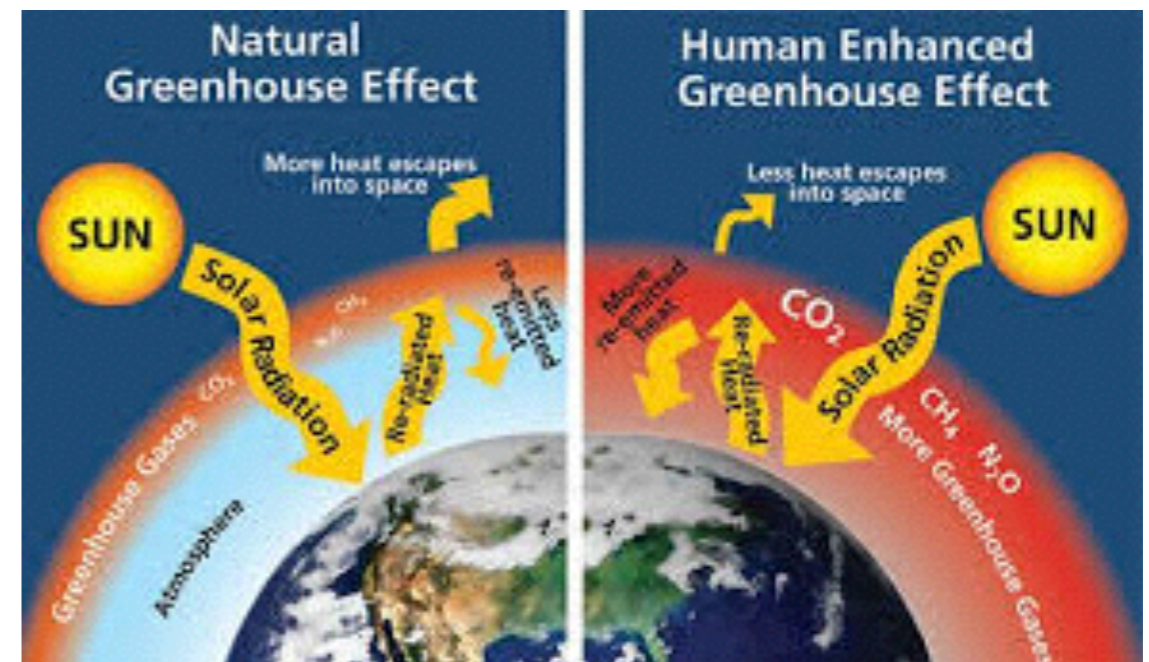
DAY TIME



NIGHT TIME

# Greenhouse Effect

- **Definition:** The trapping of thermal energy by the Earth's atmosphere. Carbon dioxide and water vapor trap more thermal energy and are referred to as greenhouse gases.
- **Example:** Venus is extremely hot because of its strong Greenhouse Effect.



# Global Warming

- **Definition:** The rise in average global temperatures is called global warming. The cause of this is an increase in the amount of greenhouse gases in the atmosphere due to human activity.
- **Example:** The past 15 years have been the hottest years on record due to global warming.

