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| **Across**  **2.** Solar energy reaches the earth as electromagnetic radiation.  **3.** Radiation is the transfer of energy across and in the atmosphere.  **6.** Convection is the transfer of heat by air currents.  **8.** The lower thermosphere is call ionosphere  **11.** The atmosphere is divided into four layers  **13.** The process inwhich gases trap heat neat the Earth is known as the greenhouse effect.  **15.** he atmosphere insulates earths surface.  **16.** Ozone in the stratosphere absorbs the sun's ultraviolet energy and warms the air.  **18.** The troposphere extends to about 18KM above the Earths surface.  **20.** Nitrogen, oxygen, carbon dioxide and other gases are all parts of the atmosphere.  **21.** Gases can be added to and removed from the atmosphere in ways other than through living organisms. | **Down**  **1.** The flow of heat from a warmer object to a colder object when the objects are placed in drectr physical contact is called conduction.  **4.** Atmospheric dust is mainly soil.  **5.** The liquid droplets found in atmospheric dust are called aerosols.  **7.** The layer above the stratosphere is the mesosphere.  **9.** The atmospheric layer farthest from the Earth's surface is the thermosphere.  **10.** Electrically charged atoms are called ions.  **12.** Methane and argon are two types of gases that help make up the earth surface.  **14.** Ozone is a molecule made up of three oxygen atoms.  **17.** Above the troposhere is the ?  **19.** The second most abundant gas in the earth's atmosphere is oxygen. |