



Across

- 2 Excess amounts of this gas in the atmosphere causes the atmosphere to warm up (two words). (6,7)
- 3 Rising warm air (or water) coupled with descending cooler air (or water) forms a cyclic pattern called _____. (10)
- 7 Radiation and convection transfer _____ energy. (7)
- 8 About one-third of the sun's incoming energy is _____ back out to space. (9)
- 9 Different types of solar radiation (e.g.

infrared, visible light, ultraviolet) differ from each other in _____. (10)

- 11 Infrared radiation, visible light, and ultraviolet radiation are different types of _____ (two words). (5,9)
- 12 About half of the energy striking Earth is _____ by Earth's surface. (8)
- 14 _____ form over warm, tropical water and are fed by the energy of that water. (10)

Down

- 1 When air or water is heated, the _____ move faster and farther apart, reducing their density and causing them to rise. (9)
- 3 As warm, moist air rises, it gives off some thermal energy as the moisture _____, forming clouds. (9)
- 4 Thermal energy transferred through radiation and convection powers the global _____ of the atmosphere and the oceans on our planet. (11)
- 5 Clouds are not gaseous water vapor; rather

they are made up of tiny _____ particles. (5)

- 6 Carbon dioxide and other gases may disrupt the energy balance, creating a _____ effect. (10)
- 7 Some _____ form where the land is strongly heated. (13)
- 10 The Earth will heat up or cool down if energy coming into or going out of the atmosphere is not in _____. (7)
- 13 Energy from the _____ powers the motion of the atmosphere and of the oceans. (3)