Radiation

COMMENTS: Radiation is the transfer of energy waves through space. Although conduction and convection must have a material medium for heat ransfer, radiant energy can be transferred in a vacuum. We continually get heat from the sun by radiation. Dark-or orded objects absorb much radiant energy. Light-colored objects reflect more radiant energy than they absorb.

A Underline the correct answers.

- 1. Radiation is a (a. transfer b. wasting c. building) of energy waves.
- 2. The (a. moon b. sun) gives off radiation.
- 3. Radiation can move through (a. space b. a vacuum).
- 4. A (a. forced air furnace b. fireplace) heats by radiation.
- 5. Solar heat is transferred by (a. conduction b. convection c. radiation).
- 6. Dark objects (a. absorb b. reflect c. burn up) more radiant energy.
- 7. Light objects (a. burn up b. absorb c. reflect) more radiant energy.
- 8. Air is a (a. medium b. substance).
- 9. Energy can be (a. transferred b. created c. destroyed).
- 10. Radiation can be (a. measured b. destroyed).
- 11. Radiation travels in (a. waves b. circles c. zigzags).

True or False 1. Conduction must have a material medium for heat transfer. 2. The sun gives off radiant energy. 3. A vacuum is a space that is void of air. 4. Convection is not a form of heat transfer. 5. Energy waves can travel through space. 6. Electricity is a form of radiant energy. 7. Some objects absorb more radiant heat than others. 8. Heat can cause water to evaporate.

___ 9. The sun evaporates water through radiant heat.

Place an X by each word that could tell about radiation.

	about radiation.		
1.	heat X	15.	transfer
2.	east	16.	0,
3.	radiate		days
4.	west	18.	sun
5.	burn	19.	south
6.	north	20.	space
7.	vacuum	21.	night
8.	cake		light
9.	dark	23.	appreciate
10.	deep	24.	fireplace
11.	eyes	25.	sunlamp
.2.	reflect		sleep
13.	life	27.	absorb

14. medium

28. air

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