

HOW DOES ENERGY MOVE?

NAME _____

RADIATION? CONDUCTION? OR CONVECTION?

UNDERNEATH EACH STATEMENT, TELL IF IT IS DESCRIBING RADIATION, CONDUCTION OR CONVECTION

1. The Sun's ultraviolet energy makes it all the way to Earth, even passing through empty space.

2. Energized warm air from the valley rises up the size of a mountain.

3. I lose heat energy from my hands because I had them on the cold table for a while.

4. Thermal energy from hot coffee enters into a spoon making it hot as well.

5. Energy in the form of microwaves is generated by the cooking device and travels into my hotdog making it warm.

6. The bottom of the lake feels colder on my feet because the cold water is sinking

7. An x-ray machine sends energy through my body onto a screen that creates an image of my insides.

8. Energy from the sun hits the sand on the beach causing it to vibrate more and get hotter.

9. The heated water at the bottom of the pot relocates and goes up to the top of the pot.

10. My bare hands become freezing as the metal of the monkey bars steals my heat energy from my hands.

11. Warm energized air molecules from the floor register transfer up to the ceiling of my house, making the top of the room hotter than the bottom.

12. The warm Earth sends its heat as infrared waves. The infrared waves are absorbed by the atmosphere gases and as a consequence the atmosphere gets hotter.

13. A shirt is placed on an ironing board to be ironed. Heat energy from the iron is goes into the shirt, making it easy to eliminate wrinkles.

14. I push a button on my remote which sends an infrared wave to my TV. My button push while sitting on the couch is transferred to a button push on the TV 10 ft away.

15. I can feel the heat from my noodle soup rise up as I put my hands over the bowl.

16. A young girl walks outside barefoot on a hot summer day, the heat from the asphalt is transferred to her feet, and her feet become hot.

17. Energy from the sun is transferred into your face on a summer day.

18. Sound energy from a radio station is converted into radio waves which travel 30 miles and then energize my radio with music.

19. A cube of ice is placed into the hand of a man. Over time, heat energy from the man's hand transfers to the ice cube melting it.

20. Air heated by a space heater rises and is replaced by cool air, creating an air current that circulates hot air throughout a room.
