Task Cards
Thermal Energy: Conduction, Convection and Radiation

Conduction
Convection
Radiation
Radiation
Conduction, Convection or Radiation?

A person placing their hands near a camp fire.

How the inside of a greenhouse works.

Using an electric blanket to get warm.

Moving water in a pot of boiling water.

The energy given off by the sun.

Ice melting in the hand.
#7 Conduction, Convection or Radiation?
The warm air moving upwards from a fireplace.

#8 Conduction, Convection or Radiation?
A doctor takes an x-ray of your body.

#9 Conduction, Convection or Radiation?
Placing ice on a sprained ankle.

#10 Conduction, Convection or Radiation?
The heat felt when putting a hand near a light bulb.

#11 Conduction, Convection or Radiation?
Eggs cooking in a hot pan.

#12 Conduction, Convection or Radiation?
Roasting a marshmallow over a fire.
#13 Conduction, Convection or Radiation?
The heat felt after putting hands near, but not touching, a radiator.

#14 Conduction, Convection or Radiation?
How a radiator heats up an entire room.

#15 Conduction, Convection or Radiation?
A snowman melting from sunlight.

#16 Conduction, Convection or Radiation?
A microwave cooking food.

#17 Conduction, Convection or Radiation?
The heat rising up from a fire place and through a chimney.

#18 Conduction, Convection or Radiation?
A metal spoon sits in soup, and the spoon heats up.
#19 Conduction, Convection or Radiation?
The reason why a hot air balloon rises.

#20 Conduction, Convection or Radiation?
Hands warm up after holding a hot cup of coffee.

#21 Conduction, Convection or Radiation?
The main way food is cooked in an outdoor grill.

#22 Conduction, Convection or Radiation?
Ironing a shirt full of wrinkles.

#23 Conduction, Convection or Radiation?
Hands warming up after touching the handle of a hot pan.

#24 Conduction, Convection or Radiation?
The cause of ocean currents.
Thermal Energy
Answer Key

1. Radiation
2. Convection
3. Conduction
4. Convection
5. Radiation
6. Conduction
7. Convection
8. Radiation
9. Conduction
10. Radiation
11. Conduction
12. Radiation
13. Radiation
14. Convection
15. Radiation
16. Radiation
17. Convection
18. Conduction
19. Convection
20. Conduction
21. Radiation
22. Conduction
23. Conduction
24. Convection