

Name _____

Radiation: The Invisible Heat Transfer

Multiple Choice Questions

1. What is radiation?
 - a) The transfer of heat through direct contact
 - b) The transfer of heat through the movement of fluids
 - c) The transfer of heat through electromagnetic waves
 - d) The transfer of heat through solids

2. How does radiation differ from conduction and convection?
 - a) Radiation requires direct contact, while conduction and convection do not.
 - b) Radiation involves the movement of fluids, while conduction and convection do not.
 - c) Radiation can transmit heat through empty space, while conduction and convection cannot.
 - d) Radiation is only relevant in outer space.

3. When an object absorbs radiation, what happens to it?
 - a) It becomes cooler.
 - b) It becomes warmer.
 - c) It reflects the radiation.
 - d) It transmits the radiation.

4. Which of the following is an example of radiation in everyday life?
 - a) Boiling water in a pot
 - b) Wind blowing through a room
 - c) Feeling warmth from the Sun on a sunny day
 - d) Stirring a cup of hot cocoa

5. What happens when an object reflects radiation?
 - a) It absorbs the radiation.
 - b) It becomes warmer.
 - c) It bounces off the radiation without absorbing it.
 - d) It transmits the radiation.

