

Questions on 'Heat energy transfer' video

1. If you have got a hot object and a cold object, which way will heat energy move?

The heat energy will move from the _____ object to the _____
object.

2. Which way does the heat energy move in the 'cup of tea' example?

The heat would move from _____ to
_____.

3. When you put your hand into iced water, why does the iced water feel cold?

The iced water feels cold because heat energy _____
_____.

4. How does heat energy move through solids?

The heat energy moves by _____

5. When heat energy is added to particles in a metal bar, what happens the particles?

The particles will _____ more. These

_____ are then passed on to the particles

_____.

6. What name is given to the process by which heat energy passes through liquids and gases?

Heat passes through liquids and gases by _____.

7. Why does warm air rise?

Warm air rises because, when air is heated, the air particles move

_____ and this makes the warm

air _____ dense (lighter) than cold air.

8. What happens to some of the heat energy as warm air moves around the room?

As warm air moves around the room, heat energy passes to the other

_____ around them. This warms up these _____.

9. Why does cold air sink?

As heat energy is passed to the other air _____,

The air particles move around _____ and get

_____. This makes

the air more _____ and causes it to sink.

10. What do we call the path the air takes around the room?

We call the path the air takes around the room a _____

_____.

11. If an object is very hot, how much radiated heat does it give off?

Hot objects give off _____ of radiated heat.

12. Are particles needed for heat to travel by radiation?

_____. Heat can travel by radiation through a _____

(like space).