



Name _____ Class _____ Date _____

1 In the relationship of **heat** and **temperature**, temperature is a measurement of how much thermal energy an object contains. **Heat** is _____.

A the same thing as temperature
B only a measurement of thermal energy above 99°C
C the transfer of thermal energy from cooler objects to warmer ones
D the transfer of thermal energy from warmer objects to cooler ones

2 In the picture below, an ice cube is **melting** as it is being **held**. What is the explanation for this?

A heat is being transferred from the ice cube to the hand
B heat is being transferred from the hand to the ice cube
C heat is being transferred from the ice cube to the air
D friction is causing the cube to melt



3 In the picture below, heat is being **transferred** from the hand to the ice cube by which **process**?

A radiation
B conduction
C convection



4 When an **ice cube melts**, which of the following must have taken place?

A the hand gained heat
B ice cube lost heat
C the ice cube gained heat



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A conduction
B radiation
C condensation
D fission



A conduction
B radiation
C convection
D evaporation



9 While swimming in a lake, a boy notices pockets of both **colder** and **warmer** water. This is explained by _____.

A convection in the water
B conduction in the water
C radiation in the water
D cloud cover over the water

10 Which object would make the best **conductor**?

A a plastic fork
B a metal spoon
C a paper plate
D plastic wrap





ANSWER KEY

In the relationship of **heat** and **temperature**, temperature is a measurement of how much thermal energy an object contains.

Heat is _____.

- A** the same thing as temperature
- B** only a measurement of thermal energy above 99°C
- C** the transfer of thermal energy from cooler objects to warmer ones
- D** the transfer of thermal energy from warmer objects to cooler ones

(d)

In the picture below, an ice cube is **melting** as it is being **held**. What is the explanation for this?

- A** heat is being transferred from the ice cube to the hand
- B** heat is being transferred from the hand to the ice cube
- C** heat is being transferred from the ice cube to the air
- D** friction is causing the cube to melt



(b)

In the picture below, heat is being **transferred** from the hand to the ice cube by which **process**?

- A** radiation
- B** conduction
- C** convection
- D** condensation



(b)

When an **ice cube melts**, which of the following must have taken place?

- A** the hand gained heat
- B** ice cube lost heat
- C** the ice cube gained heat
- D** none of



(c)



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- A** conduction
- B** radiation
- C** condensation
- D** fission



- C** convection
- D** evaporation



While swimming in a lake, a boy notices pockets of both **colder** and **warmer** water. This is explained by _____.

- A** convection in the water
- B** conduction in the water
- C** radiation in the water
- D** cloud cover over the water

(a)

Which object would make the best **conductor**?

- A** a plastic fork
- B** a metal spoon
- C** a paper plate
- D** plastic wrap



(b)