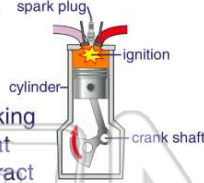




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

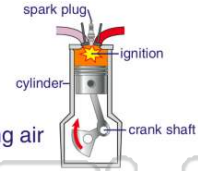
1 Most vehicles are powered by an internal combustion engine. In the diagram below of a cylinder in an internal combustion engine, the **ignition** causes \_\_\_\_\_.

- A an expansion of vapor
- B the engine to stop working
- C the cylinder to lose heat
- D the metal parts to contract



2 Ignition of fuel in the cylinder of an internal combustion engine causes a rise in temperature. This **rise in temperature** is caused by \_\_\_\_\_.

- A increased amounts of chemical energy
- B increased amounts of thermal energy
- C heat transfer from the cylinder to the surrounding air
- D heat transfer from the surrounding air to the cylinder



3 Where in this double-paned window is an **insulator** present?

- A 1
- B 2
- C 3
- D 4



4 In the diagram below, the **air** between the glass panes \_\_\_\_\_.

- A prevents the movement of thermal energy
- B increases the amount of thermal energy



## PREVIEW

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7 \_\_\_\_\_  
V  
e  
A

- B electromagnetic energy is released from the water in the puddle
- C thermal energy is destroyed by the sunlight
- D chemical energy is converted to thermal energy

- B mechanical
- C electromagnetic
- D electrical



9 The reason why cooking pots are made of metal with nonmetal handles is that **metals** do **not** conduct thermal energy well, but **nonmetals** do.  
True or false?

- A true
- B false



10 This hot water tank is wrapped with a **thick covering**. What is the reason for this covering being on the hot water tank?

- A it reduces the heat loss from inside the tank
- B it helps absorb heat from outside the tank
- C it produces heat for the water
- D it reduces the heat inside the tank

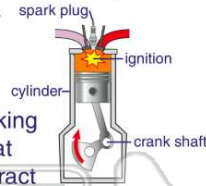




## ANSWER KEY

Most vehicles are powered by an internal combustion engine. In the diagram below of a cylinder in an internal combustion engine, the **ignition** causes \_\_\_\_\_.

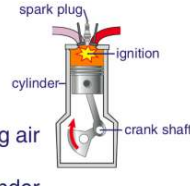
- A an expansion of vapor
- B the engine to stop working
- C the cylinder to lose heat
- D the metal parts to contract



(a)

Ignition of fuel in the cylinder of an internal combustion engine causes a rise in temperature. This **rise in temperature** is caused by \_\_\_\_\_.

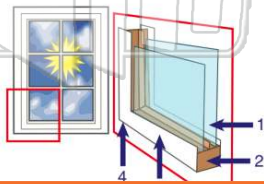
- A increased amounts of chemical energy
- B increased amounts of thermal energy
- C heat transfer from the cylinder to the surrounding air
- D heat transfer from the surrounding air to the cylinder



(b)

Where in this double-paned window is an **insulator** present?

- A 1
- B 2
- C 3
- D 4



(a)

In the diagram below, the **air** between the glass panes \_\_\_\_\_.

- A prevents the movement of thermal energy
- B increases the amount of thermal energy
- C allows cold air to escape
- D allows warm air to enter



(a)



## PREVIEW

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- the water in the puddle
- C thermal energy is destroyed by the sunlight
- D chemical energy is converted to thermal energy

D electrical



The reason why cooking pots are made of metal with nonmetal handles is that **metals** do **not** conduct thermal energy well, but **nonmetals** do.

True or false?

- A true
- B false



(b)

This hot water tank is wrapped with a **thick covering**. What is the reason for this covering being on the hot water tank?

- A it reduces the heat loss from inside the tank
- B it helps absorb heat from outside the tank
- C it produces heat for the water
- D it reduces the heat inside the tank



(a)