

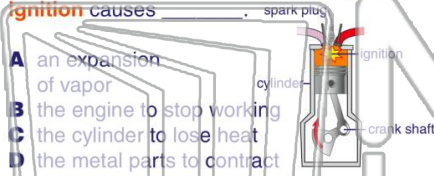


Name _____ Class _____ Date _____

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 _____.

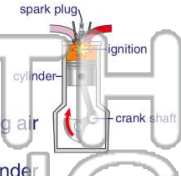
- A an expansion of vapor
- B the engine to stop working
- C the cylinder to lose heat
- D the metal parts to contract



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?



4

In the diagram below, the **air** between the glass panes _____.

5

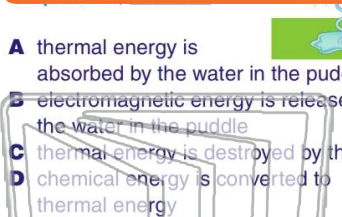


PREVIEW

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7

- A thermal energy is absorbed by the water in the puddle
- 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



- A chemical
- 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?

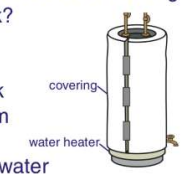
- A true
- B false



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

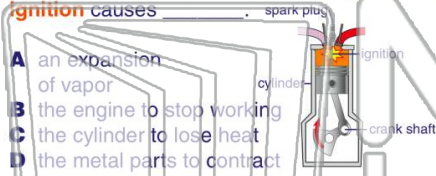




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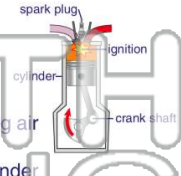
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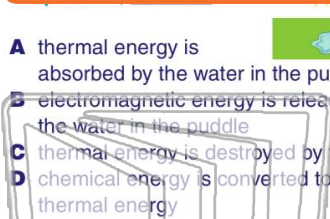
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