

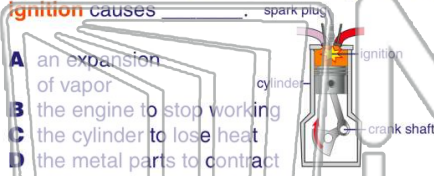


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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 \_\_\_\_\_.

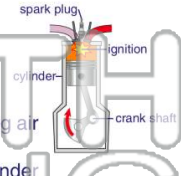
- A an expansion of vapor
- B the engine to stop working
- C the cylinder to lose heat
- D the metal parts to contract



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

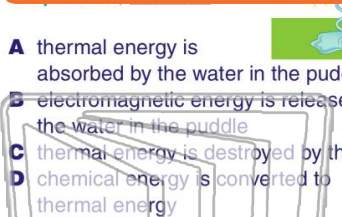


## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

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?

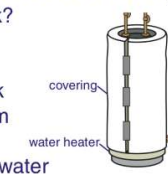
- A true
- B false



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

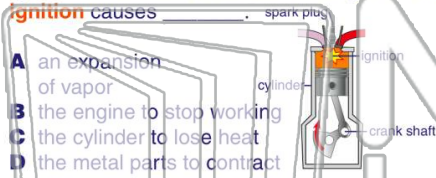




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

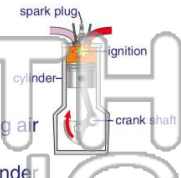
1 Most vehicles are powered by an internal combustion engine. In the diagram below of a cylinder in an internal combustion engine, the **ignition** causes \_\_\_\_\_.

- 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?



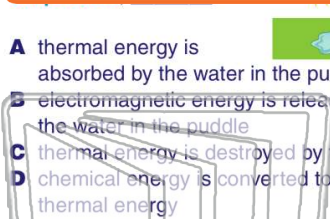
4 In the diagram below, the **air** between the glass panes \_\_\_\_\_.



## PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

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

