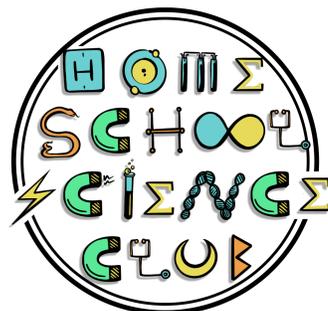


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Name _____

Date _____

Steel Wool

1. The French scientist credited for discovering the law of the conservation of matter was named:

- A. Gerard Depardieu
- B. Antoine Lavoisier
- C. Louise Pasteur
- D. Jean-Babtiste Lamarck

2. True or false: When a sugar molecule combusts (reacts with air), the sugar is broken down in to smaller molecules. In the reaction depicted in the video, the two molecules that are formed are carbon monoxide and water. _____

3. True or False: Oxygen reacts with the Iron in the steel to form a new compounds called Iron Oxide.

4. When two elements are combined to make a new and stronger material and one of the elements is a metal, this new substance is called an:

- A. molecule
- B. compound
- C. alloy
- D. junction

5. On the line beside the substance below, write whether the weight of the substance will increase or decrease (in an open system as depicted in the video) when it combusts.

Paper

Marshmallows

Steel wool

6: True or False: Because of the law of conservation of matter, if the reactions in the video were performed in a closed system, the weight of the substances would not change. _____

Steel Wool- Answer Key

1. The French scientist credited for discovering the law of the conservation of matter was named:

- A. Gerard Depardieu
- B. Antoine Lavoisier**
- C. Louise Pasteur
- D. Jean-Babtiste Lamarck

2. True or false: When a sugar molecule combusts (reacts with air), the sugar is broken down in to smaller molecules. In the reaction depicted in the video, the two molecules that are formed are carbon monoxide and water. False: the two molecules are carbon DIOXIDE and water

3. True or False: Oxygen reacts with the Iron in the steel to form a new compounds called Iron Oxide.

True

4. When two elements are combined to make a new and stronger material and one of the elements is a metal, this new substance is called an:

- A. molecule
- B. compound
- C. alloy**
- D. junction

5. On the line beside the substance below, write whether the weight of the substance will increase or decrease (in an open system as depicted in the video) when it combusts.

Paper Decrease

Marshmallows Decrease

Steel wool Increase

6: True or False: Because of the law of conservation of matter, if the reactions in the video were performed in a closed system, the weight of the substances would not change. True

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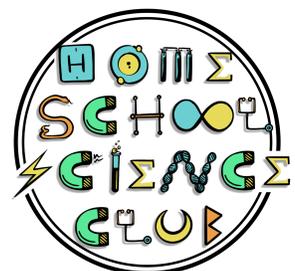
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