

## Review of lesson 3: Physical and chemical changes

Question 1: write true or false:

- 1- (     ) cutting of apple is physical change.
- 2- (     ) mass of two materials before reaction not equal after reaction.
- 3- (     ) balance scale is use to measure the mass of an object .
- 4- (     ) change in temperature is a sign to chemical changes

Question 2 : write word in correct blank :

**New substance - Bubbles - melting - conservation-  
- remains - physical -chemical**

- 1- Release .....is a sign that a chemical reaction has occurred.
- 2- Cutting of hair is ..... change .
- 3- The mass can neither be created nor destroyed is called ..... of mass .
- 4- Burning a piece of paper is ..... Change .
- 5- An example of physical change is chocolate .....
- 6- In chemical change ..... are formed.
- 7- In physical change , the original substance ..... the same.

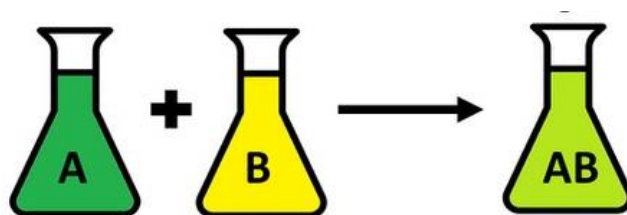
**Question 3 : choose the correct answer**

**1-Law of conservation of mass states that**

- A. mass is created**
- B. mass is destroyed**
- C. mass is neither created nor destroyed**
- D. mass does not change**

**2- Sarah combines a substance a mass of 20 grams with another a mass of 16 grams. After the reaction, what is the mass of the products of this reaction?**

- A. 26g**
- B. 4g**
- C. 8g**
- D. 36g**



**3-white powder ( 100 g) reacts with water ( 177 g ) . The reaction bubbles and changes color producing a yellow liquid that has a mass of 156 g. What can be concluded?**

- A. 277g of gas was produced**
- B. This experiment violates the conservation of mass**
- C. 121 g of gas was produced**
- D. This reactant is destroyed & disappears during the reaction**

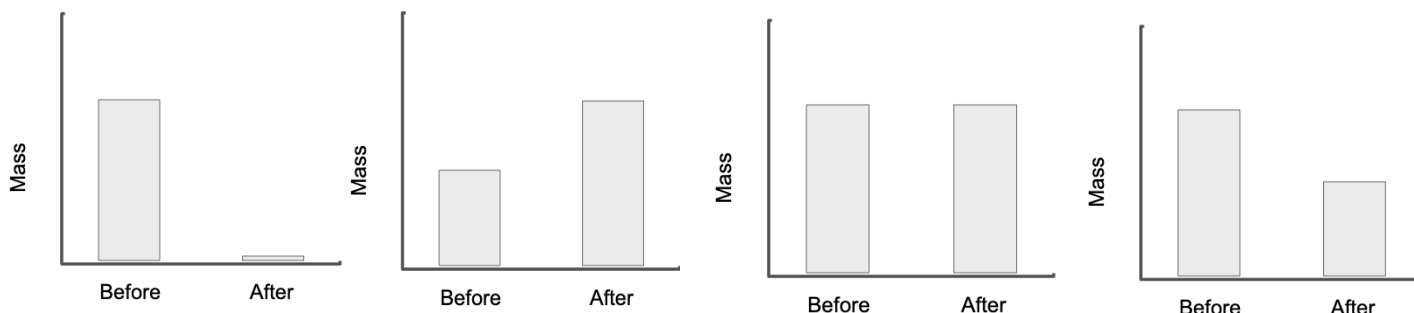


**4-Maryam forgot to take a reading of the mass of the juice powder before mixing it with water. What was the mass of the juice powder?**

- A. 200 g**
- B. 35 g**
- C. 100 g**
- D. 235 g**

Material	Mass( g )
Water	200 g
Powder of orange juice	? ??
Orange juice	235 g

5-Which of the following graphs best represents the amount of matter in the sugar before and after the scientist began stirring?



6-Which of the following is NOT an example of a physical change?

- A. Tear of paper
- B. Breaking of pencil
- C. Folding clothing
- D. sour milk.

7- Green bananas turning yellow on their own as they ripen.

- A. Chemical Change
- B. Physical Change
- C. both
- D. neither



8- Which of the following is an example of a physical change?

- A. Water freezing into ice
- B. A piece of wood burning
- C. A toy car rusting
- D. Vinegar mixed with packing soda .

9- In physical change .....are made

- A. Bubbles
- B. Burning
- C. No new substance .
- D. Rusting

10-Which of the following is NOT an example of a physical change?



A



B



C



D

11- Burning of firework is :

- A. physical Change
- B. chemical Change
- C. both
- D. neither



12- In physical change .....are formed .

- A. Bubbles
- B. Burning
- C. No new substance .
- D. Rusting

13-a rusting bicycle is .....

( physical - chemical )



14-Melting of ice cream is .....

( physical - chemical )



15-mixing lemonade powder into water is ..... .

( physical - chemical )



**16-Sign of a chemical changes is anything that shows -**

- A. a new substance has formed**
- B. a solid dissolved in a liquid**
- C. a change in the shape of matter**
- D. a change in the state of matter**

**17-what sign of chemical change in this reaction**

- A. Bubbles are produced**
- B. Taste is change**
- C. Temperature is change**
- D. Color is changing**



**18-One of the signs of a chemical changes is:**

- A. Bubbles are produced**
- B. Taste is not change**
- C. Products are not forming**
- D. Color is not changing**

**19-Which of the following signs of chemical changes ?**

- A. Changing shape of matter**
- B. a solid forms when one liquid is poured into another**
- C. changing state of matter**
- D. change size of matter**

**20-Which of the following is a sign that a chemical change is taking place?**

- A. Smelling an offensive odor**
- B. A substance is melted**
- C. something dissolve in water**
- D. The ability to break an object.**