



Name _____ Class _____ Date _____

- 1 What **type** of **chemical reaction** is shown in the diagram below?



- A double replacement
- B synthesis
- C decomposition
- D single replacement

- 2 The total mass of **oxygen** on **each side** of this chemical equation is _____.



- B 16 amu
- C 32 amu
- D 64 amu

8
O
16

- 3 In the reaction shown below, the **mass** of the reactant on the left **equals** the mass of the reactants on the right. What law is illustrated by this fact?



- A Newton's first law

- 4 What **type** of **chemical reaction** is shown in the reaction below?



- A single replacement
- B double replacement



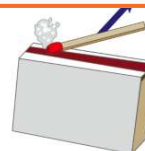
PREVIEW

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- 7
- A to provide a reactant
 - B to soften the match
 - C to provide activation energy
 - D to add another reactant

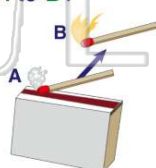


- B sound
- C change of shape
- D change in mass



- 9 What **two terms** accurately describe the two steps shown here from A to B?

- A endothermic, then exothermic
- B only physical changes for both steps
- C exothermic for both steps
- D activation energy, then exothermic



- 10 The equation below shows how CaCO_3 decomposes into CaO and CO_2 . How many **grams** of CaCO_3 must be broken down in order to produce **112 grams** of CaO and **88 grams** of CO_2 ?

- A 112
- B 24
- C 200
- D 224

$$\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$$

20	8	6
Ca	O	C
40	16	12



ANSWER KEY

What **type of chemical reaction** is shown in the diagram below?



- A double replacement
- B synthesis
- C decomposition
- D single replacement

(b)

The total mass of **oxygen** on **each side** of this chemical equation is _____.



- A 4 amu
- B 16 amu
- C 32 amu
- D 64 amu



(c)

In the reaction shown below, the **mass** of the reactants on the left **equals** the mass of the reactants on the right. What law is illustrated by this fact?



- A Newton's first law
- B law of conservation of mass
- C Pascal's law
- D

(b)

What **type of chemical reaction** is shown in the reaction below?



- A single replacement
- B double replacement
- C synthesis
- D

(a)



PREVIEW

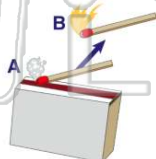
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- C to provide activation energy
- D to add another reactant

- D change in mass

What **two terms** accurately describe the two steps shown here from A to B?

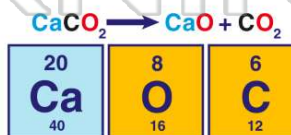
- A endothermic, then exothermic
- B only physical changes for both steps
- C exothermic for both steps
- D activation energy, then exothermic



(d)

The equation below shows how CaCO_3 decomposes into CaO and CO_2 . How many **grams** of CaCO_3 must be broken down in order to produce **112 grams** of CaO and **88 grams** of CO_2 ?

- A 112
- B 24
- C 200
- D 224



(c)