

WELLAND GOULDSMITH SCHOOL
CLASS 8
CHEMISTRY
PHYSICAL AND CHEMICAL CHANGES
ANSWERS

I.1.Physical

2.Physical

3.Chemical

4.Chemical

5.Chemical

6.Chemical

7.Chemical

8.Physical

9.Chemical

10.Chemical

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I.1.Catalytic reaction

2.Thermal reaction

3.Photochemical reaction

4.Electrolytic reaction

II.1.Close

2.Iron sulphide

3.Vanadium Pentoxide

4.Molybdenum

5.Concentration of the reactants

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B.1.Kinetic energy

2.Photochemical reactions

3.Iron(II)Sulphide

4.Physical

5.Changes

C.1.True

2.True

3.False

Rate of reaction doubles for every 10°C rise in temperature.

4.False

Acidulated water decomposes on passing electric current.

5.True

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D.PHYSICAL CHANGE

Temporary

No absorption or evolution of energy

No new product formed

Reversible

CHEMICAL CHANGE

Permanent

Energy is always evolved or absorbed

New product formed

Irreversible

F.1-e

2-c

3-a

4-b

5-d

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G.1. $2\text{Na}+2\text{H}_2\text{O}\rightarrow 2\text{NaOH}+\text{H}_2$

2. $2\text{KClO}_3\rightarrow 2\text{KCl}+3\text{O}_2$

3. $\text{N}_2+3\text{H}_2\rightarrow 2\text{NH}_3$

4. $2\text{SO}_2+\text{O}_2\rightarrow 2\text{SO}_3$

5. $6\text{CO}_2+6\text{H}_2\text{O}\rightarrow \text{C}_6\text{H}_{12}\text{O}_6+6\text{O}_2$