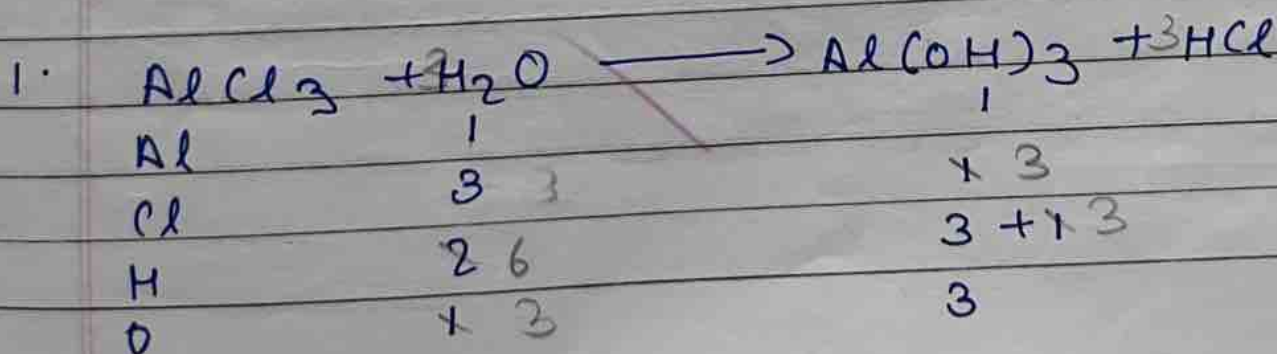


Balance the following chemical equation.

1. Aluminium chloride + water \longrightarrow Aluminium hydroxide + Hydrochloric acid
2. Phosphorus + sulphuric acid \longrightarrow phosphoric acid + sulphur dioxide
3. Phosphoric acid + zinc \longrightarrow zinc phosphate + H_2
4. Potassium bicarbonate + sulphuric acid \longrightarrow Potassium sulphate + carbon dioxide + water
5. Sodium peroxide + water \longrightarrow sodium hydroxide + oxygen

Answers

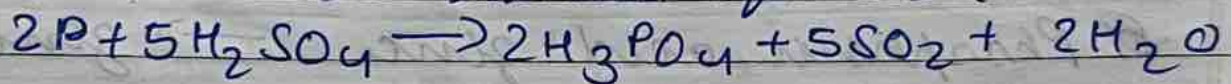


∴ The balanced chemical equation is

$$\text{AlCl}_3 + 3\text{H}_2\text{O} \longrightarrow \text{Al(OH)}_3 + 3\text{HCl}$$

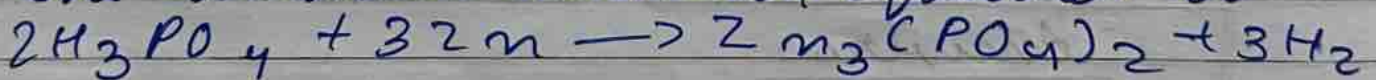

P	+ 2	2 ↓
H	2 10	+ 6 3 + 2 2 4
S	+ 5	↓ 5 10
O	4 20	8 4 + 2 + 2 + 2

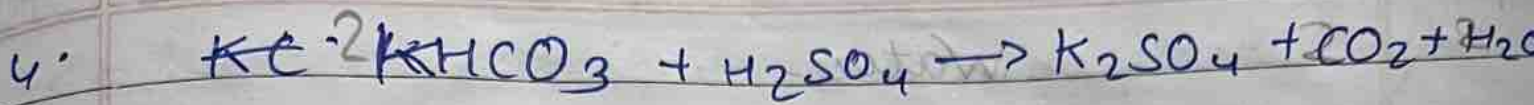
∴ The balanced chemical equation is



H	3 6	2 6
P	+ 2	2
O	4 8	8
Zn	+ 3	3

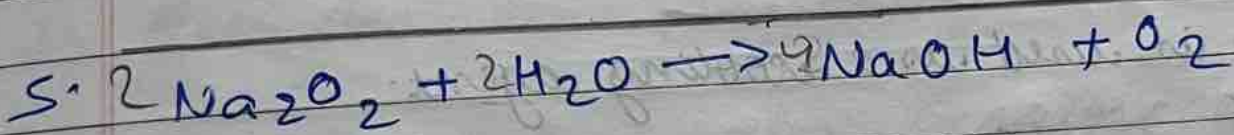
∴ The balanced chemical equation is





K	1	2	2
H	1	2 + 2	2 + 4
C	1	2	1 + 2
O	3	4	4 + 2 + 1 + 2
S	1		1

∴ The balanced chemical equation is $2KHCO_3 + H_2SO_4 \rightarrow K_2SO_4 + 2CO_2 + 2H_2O$



Na	2	4	4 + 4
O	4	2 + 2	4 + 2
H	2	4	4 + 2

∴ The balanced chemical equation is $2Na_2O_2 + 2H_2O \rightarrow 4NaOH + O_2$