

When compound P is added to sodium carbonate, carbon dioxide is produced.

When compound Q is added to ammonium chloride, ammonia is produced.

What are P and Q?

	P	Q
A	a base	a base
B	a base	an acid
C	an acid	a base
D	an acid	an acid

Which reaction is a neutralisation reaction?

- A. $\text{AgNO}_3 + \text{HCl} \rightarrow \text{AgCl} + \text{HNO}_3$
- B. $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
- C. $4\text{Na} + \text{O}_2 \rightarrow 2\text{Na}_2\text{O}$
- D. $2\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O}$