# Year 10 Science: Decomposition and neutralisation reactions

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

## Practice

1. Write the word and balanced symbol equations for heating zinc carbonate.

2. Name the salt formed when magnesium oxide reacts with nitric acid.

3. Balance: $KOH + H_2SO_4 \rightarrow K_2SO_4 + H_2O$

4. Classify: $2KClO_3 \rightarrow 2KCl + 3O_2$

5. In a test, a student saw fizzing when acid was added to a white powder, but did not test the gas. Why can't they say for certain the powder was a carbonate, and what should they add to the method?

## Fix the mistake

6. Correct this statement: "Heating copper carbonate gives copper and carbon dioxide."

7. Correct this statement: "A salt means sodium chloride."

8. Correct this statement: "Sodium hydroxide and hydrochloric acid make a salt and hydrogen gas."

9. Correct this statement: "Sulfuric acid makes sulfides."