

# Lesson 5 - Metals and Acids

Chemistry - Key Stage 3

Chemical Reactions

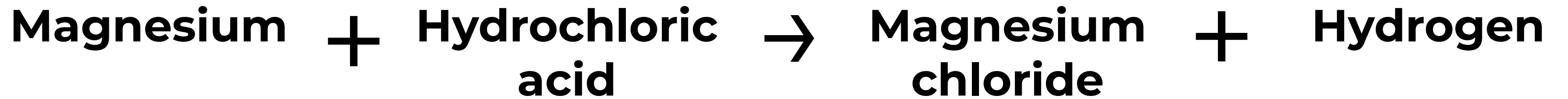
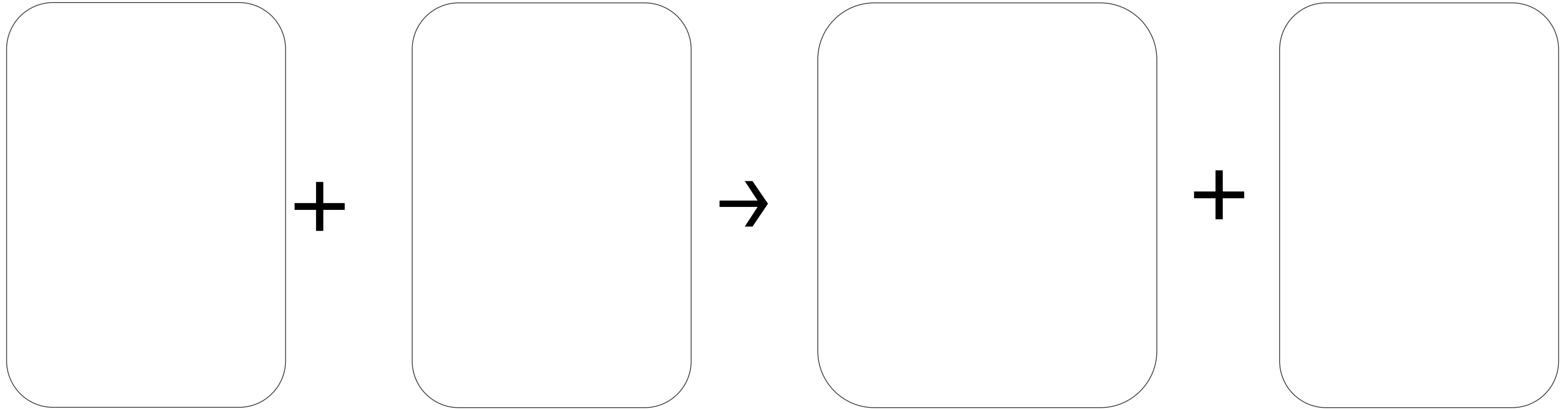
Mrs Walsh



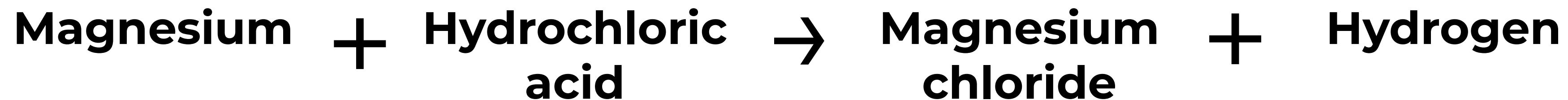
# Metal and acid reactions



# Hydrochloric acid and magnesium



# Metals and acid reactions



General equation:



# Testing for hydrogen



A student has carried out a metal and acid test and isn't sure whether hydrogen or carbon dioxide is produced.

- Use your knowledge of gas tests to explain how the student can be sure that the gas produced is hydrogen and not carbon dioxide.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



# Predicting names of salts



# Naming salts - independent practice

Magnesium + Hydrochloric acid → + Hydrogen

Iron + Hydrochloric acid → +

zinc + Nitric acid → +

Magnesium + Sulfuric acid → +

Calcium + → + Calcium chloride

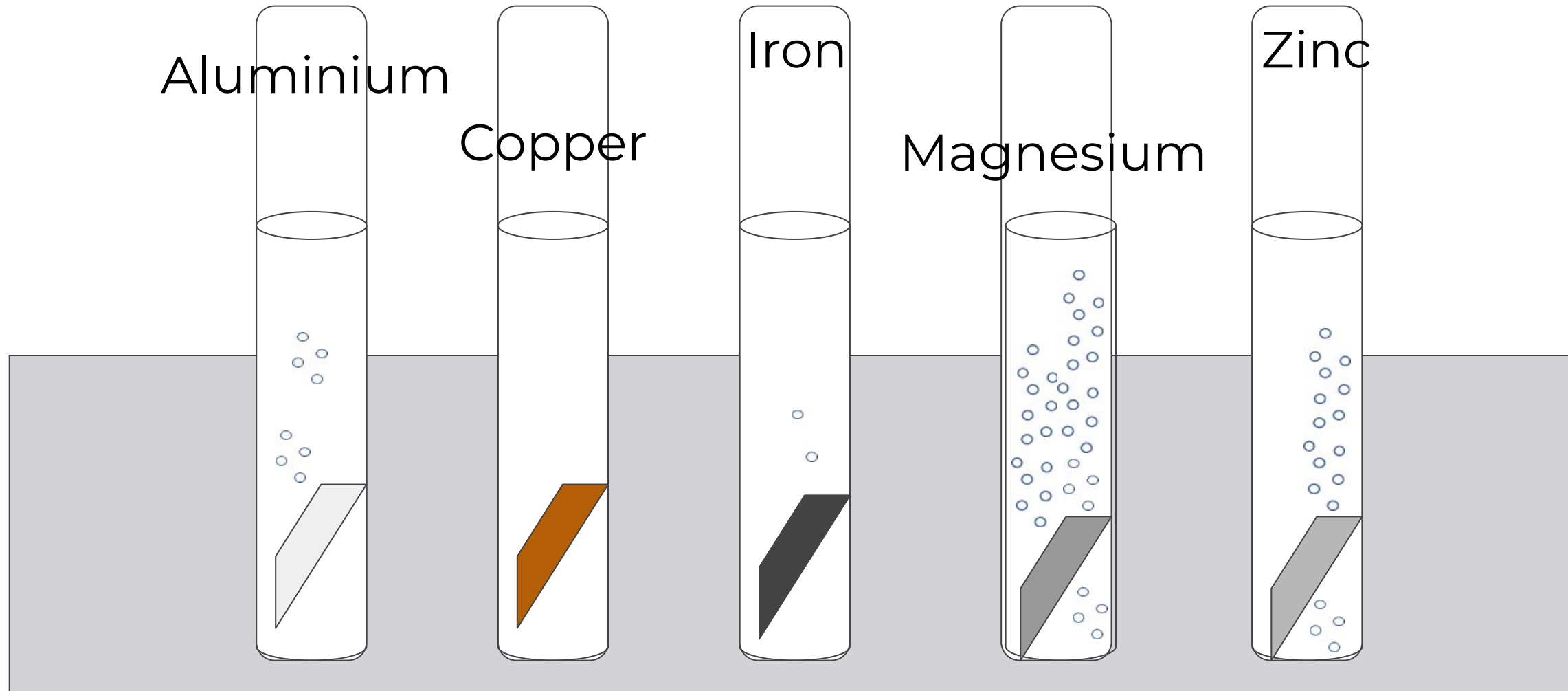
+ → + Zinc sulfate + Hydrogen

+ → + Sodium nitrate + Hydrogen





# Do all metals react with acid in the same way?



.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Answer the question in the heading and use evidence from the image to support your answer.

Source: Mrs Walsh

