Lesson 7 - Neutralisation

Chemistry - Key Stage 3

Chemical Reactions

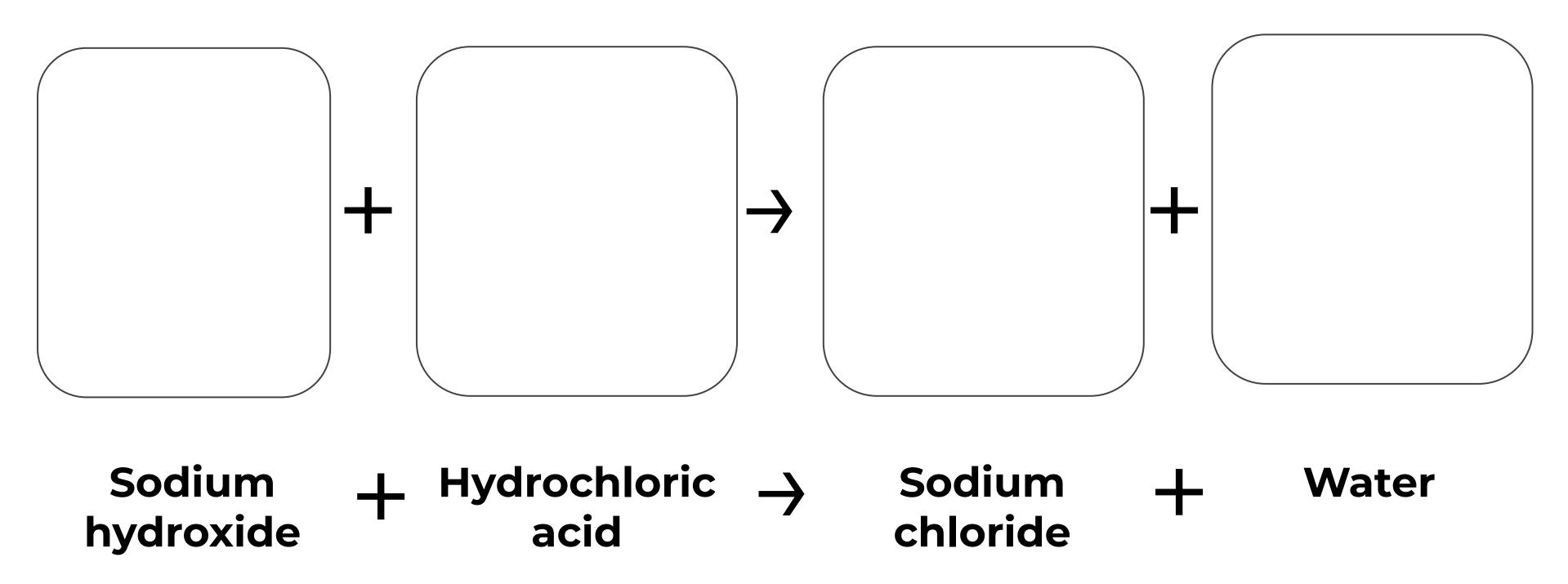
Mrs Walsh



Acid and alkali reactions

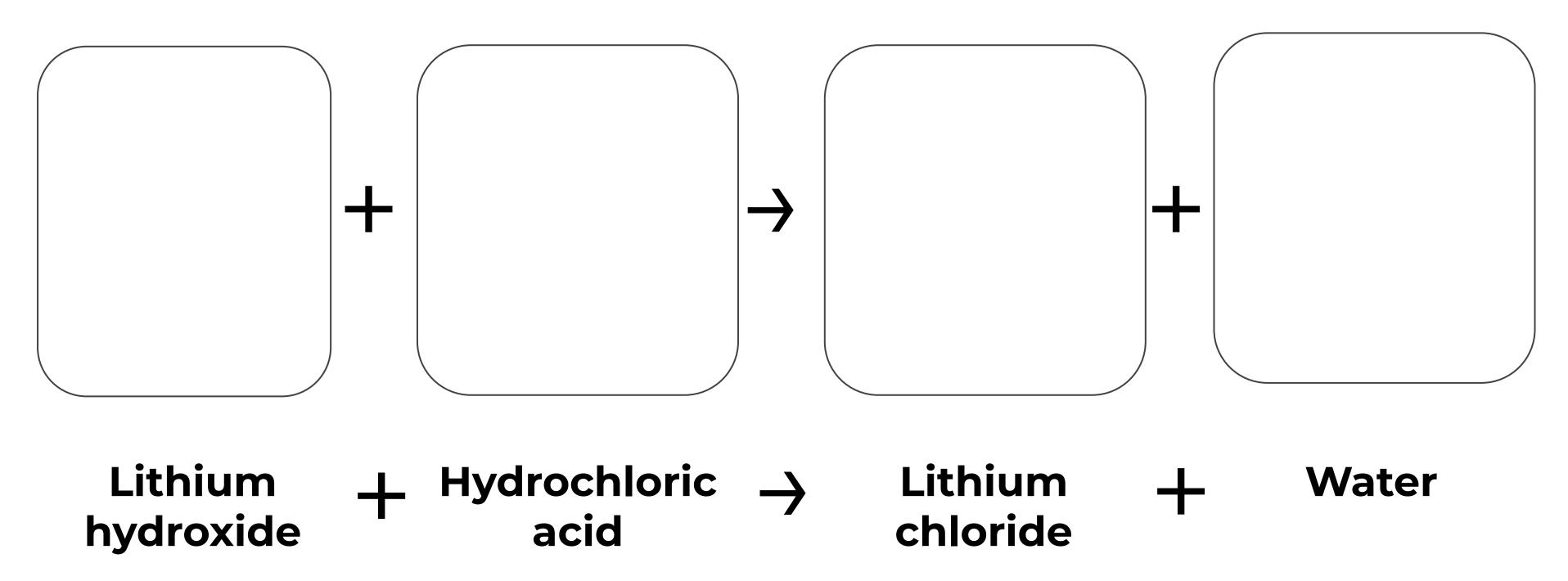


Sodium hydroxide and hydrochloric acid



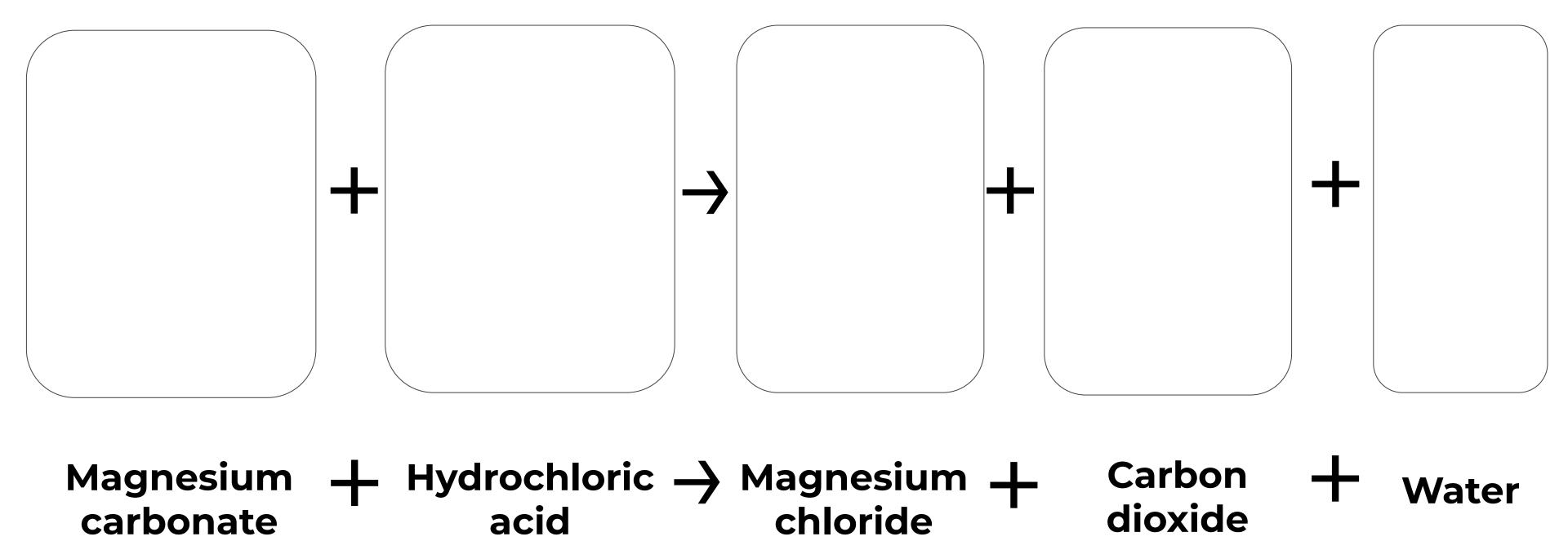


Lithium hydroxide and hydrochloric acid





Magnesium carbonate and hydrochloric acid





Predicting names of salts



Naming salts - Rules

- First name: **metal** from the alkali used
- Surname:
- Hydrochloric acid gives a chloride surname
- Sulfuric acid gives a sulfate surname
- Nitric acid gives a nitrate surname

Acid + alkali (metal oxide) → salt + water

Acid + alkali (metal hydroxide) → salt + water

Acid + alkali (metal carbonate) → salt + water + carbon dioxide



Naming salts - independent practice

Magnesium oxide	+	Nitric acid	→		+	water
Iron oxide	+	Hydrochloric acid	→		+	
Zinc hydroxide	+	Sulfuric acid	→		+	
Magnesium carbonate	+	Hydrochloric acid	→	Magnesium + chloride	+	
Calcium carbonate	+		→	Calcium + sulfate	+	
	+		→	Zinc nitrate	+	water
	+		→	Sodium + sulfate	+	water



"Bicarb for bees, vinegar for vasps (wasps)" Explain the science behind this common saying.

A bee sting is
Therefore
A wasp sting is
Therefore

Extra information:

Bee sting = pH 4.5 -5.5 Wasp sting = pH 8

- Bicarbonate of soda is a weak alkali
- Vinegar is weak acid

