Revision 2

Chemistry - Key Stage 3

Chemical Reactions

Mrs Gibbs



Fill in the missing words!

- 1. Neutralisation happens when an _____ reacts with an _____.
- 2. The products of a neutralisation reaction are a _____ and _____.
- 3. The general word equation to show neutralisation is:
 - _____+ _____+ ______+ ________
- 4. An example of a neutralisation reaction in real life is using ______ to treat _____.

Word bank: antacids, alkali (x2), salt (x2), water (x2), indigestion, acid (x2)



Match the salt to the acid

Hydrochloric acid

Nitrate

Sulfuric acid

Sulfate

Nitric acid

Chloride



Independent task

- 1. Name the salts formed when:
- a) Hydrochloric acid is reacted with lithium hydroxide: _____ ____
- b) Sulfuric acid is reacted with sodium hydroxide: _____ ___
- 2. Complete the word equations for these neutralisation reactions:
- a) Hydrochloric acid + potassium hydroxide → _____ chloride + ____
- b) Sulfuric acid + _____ hydroxide → calcium _____ + water
- c) _____ + lithium hydroxide ____ nitrate + water
- 3. Write the word equation for when magnesium hydroxide is added to hydrochloric acid
- 4. Write the word equation for when sodium hydroxide is added to sulfuric acid.
- 5. Write the word equation for when zinc hydroxide is added to nitric acid



Independent task

Which experiments are reproducible?

1)	Student	Volume of alkali (cm³)
	Mary	12.2
	Luke	12.4
	Tarun	12.2

Student	Temperature (°C)
Mary	72
Luke	79
Tarun	70

) [Student	Time (s)
	Mary	22.2
	Luke	18.8
	Tarun	27.5

.)	Student	Speed (m/s)
	Mary	4.71
	Luke	4.69
	Tarun	4.73



Independent task

Hypothesis: 12 g antacid tablets are needed to neutralise 30 cm³ of hydrochloric acid.

Results: Mass of tablets needed to neutralise 30 cm³ of hydrochloric acid: **9.8 g**

1. Write a conclusion for these results.

Hints:

Does the result match the hypothesis?

How much more/less than the hypothesis was the result?

Can you offer an explanation?

2. Another student needed 6.7 g of tablets to neutralise the same volume of acid. Are the results reproducible? Explain your answer.

