Chemistry - Key Stage 3

Chemical Reactions

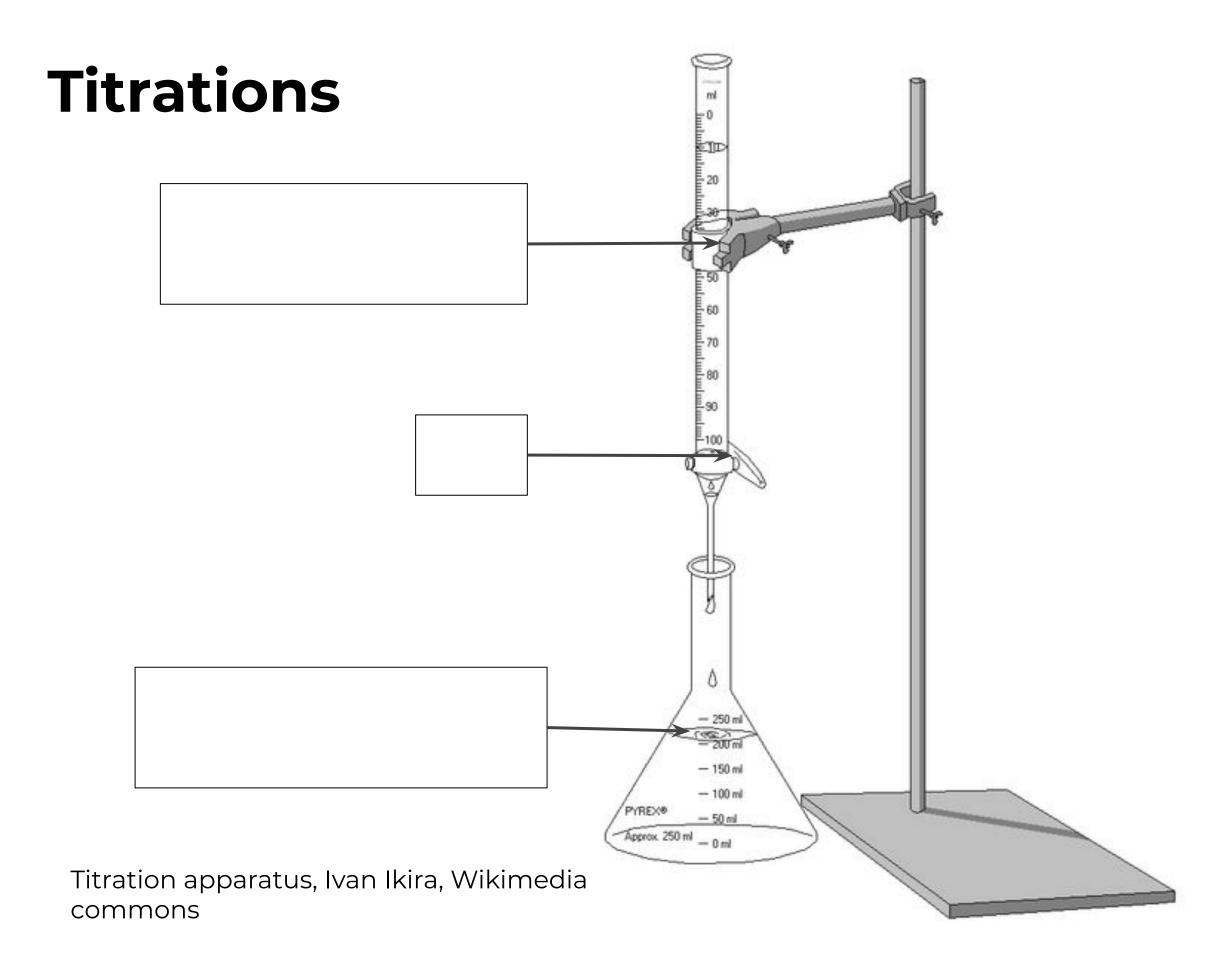
Lesson 8 - Simple Titrations

Mrs Walsh



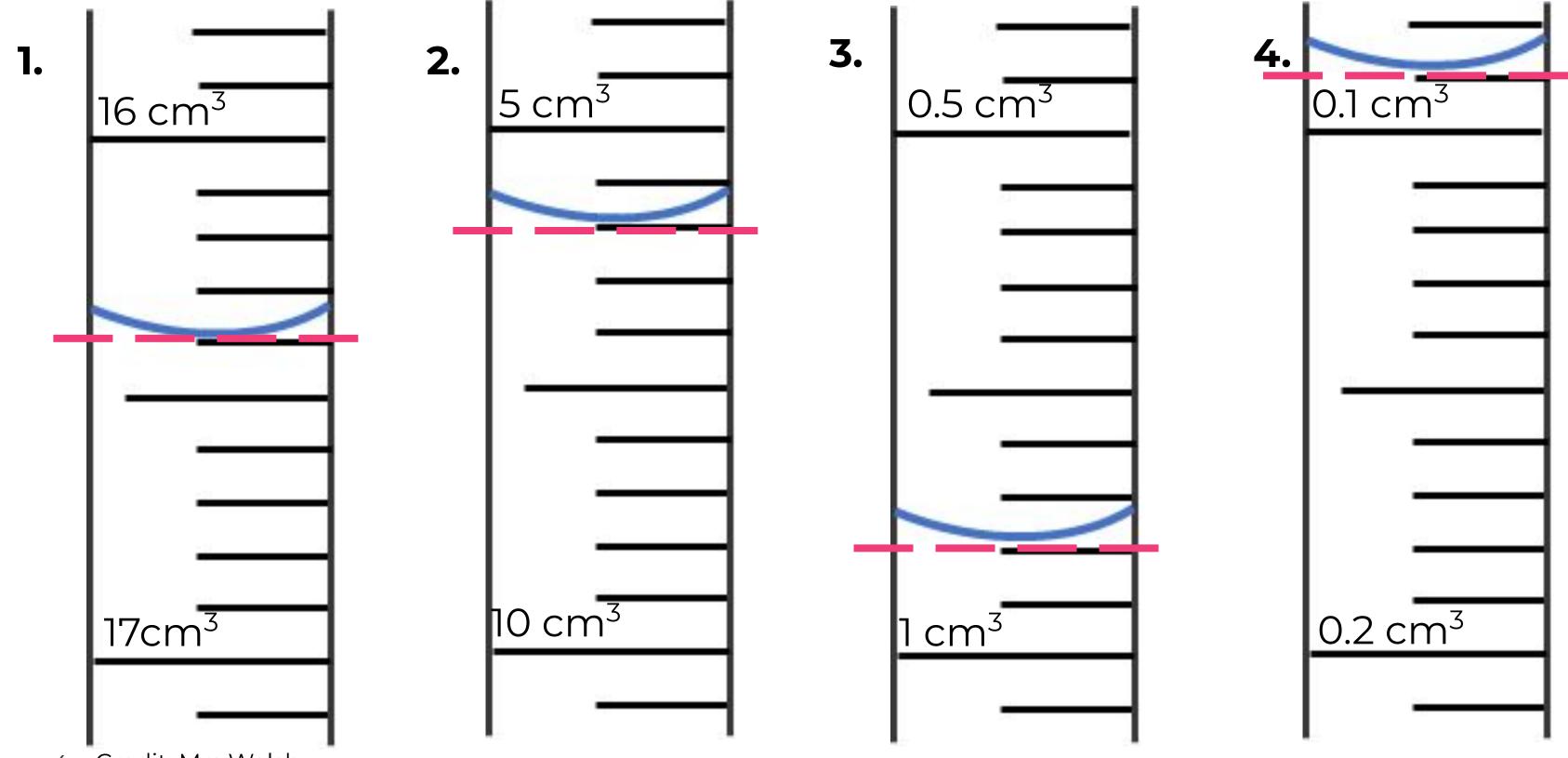
Titration Method







Reading measurements from scale





Titration method - obtaining a rough titre

Fill the burette with 1M hydrochloric acid to the 0 cm line - careful not to overfill. Run out any excess into a waste beaker.	
Read the volume of acid used.	
Measure out 10cm ³ of sodium hydroxide (alkali) using a measuring cylinder and place into a conical flask.	1
Allow the acid to run into the flask, swirling continuously, until the solution turns colourless.	
Add a few drops of phenolphthalein. It should turn pink.	
Place the conical flask under the burette and open the tap.	



Reproducible data



Results

Titration number	7	2	3	4	5	Mean
Volume of acid added (cm ³)	29.2	25.3	26.2	25.2	25.4	

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2. Ca	alculate th	ne mean c	of these res	sults.	
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Reproducible results?

Titration number	1	2	3	4	5	Mean
Volume of acid added (cm³)	25.1	25.6	29.2	25.2	25.4	

Are these reproducible results?

Are these concordant results?



Using data to write a conclusion



Write a conclusion for the following hypothesis: "We always get a neutral solution if we react equal volumes of acid and alkali"

Use the results obtained to support your conclusion and explain how confident you are that your results are valid.

The hypothesis that
S
I can see from my results that
Which supports / does not support the hypothesis.
I know that my results are valid because
Therefore, I confident in my conclusion.