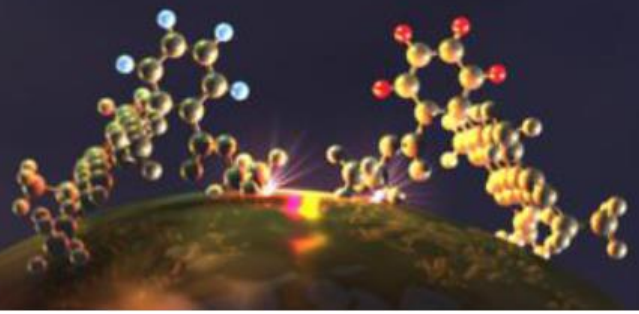
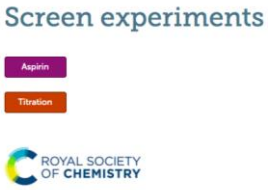


# First Year Online Labs
# On Screen Experiments





Dr Courtney Davy

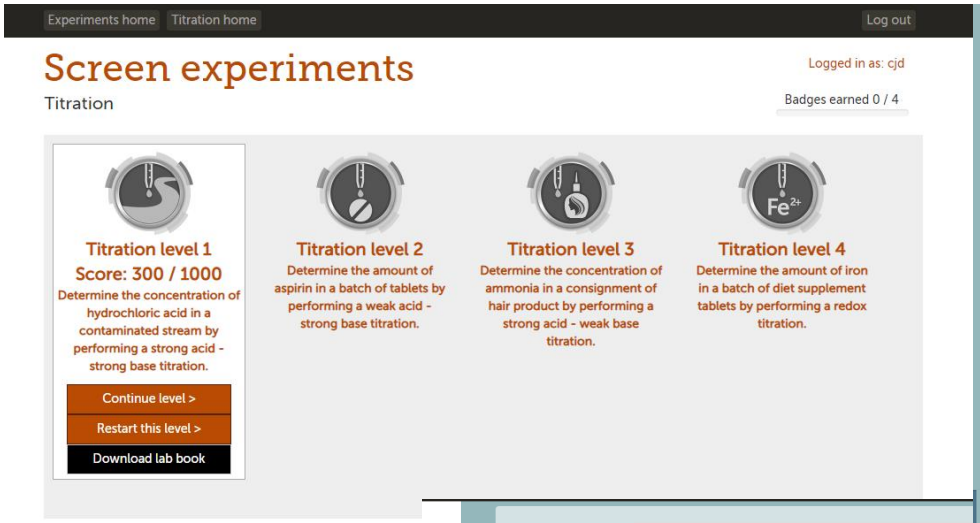
# On Screen Experiments

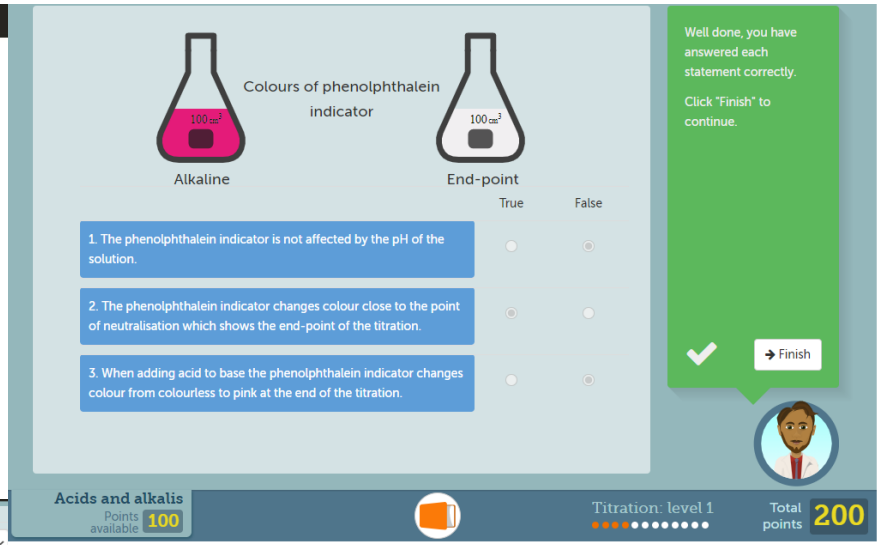
## Royal Society of Chemistry

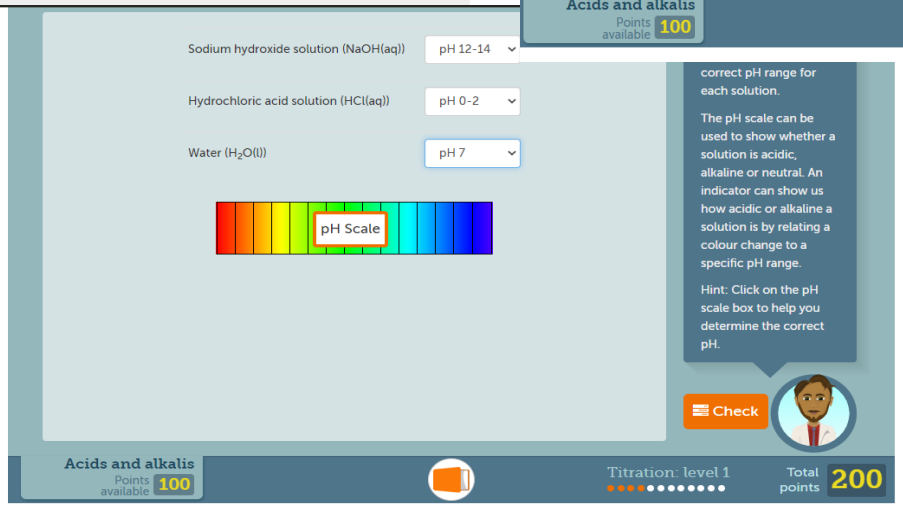
**Titration** – Gives the students the opportunity to conduct their own their own titration experiment on a computer or table. This resource also includes a redox titration experiment

**Aspirin** – Gets students running their own organic synthesis on a computer or tablet. This resource also features an in-depth practical guide and a set of worksheets covering the theory

# Titration On Screen Experiment



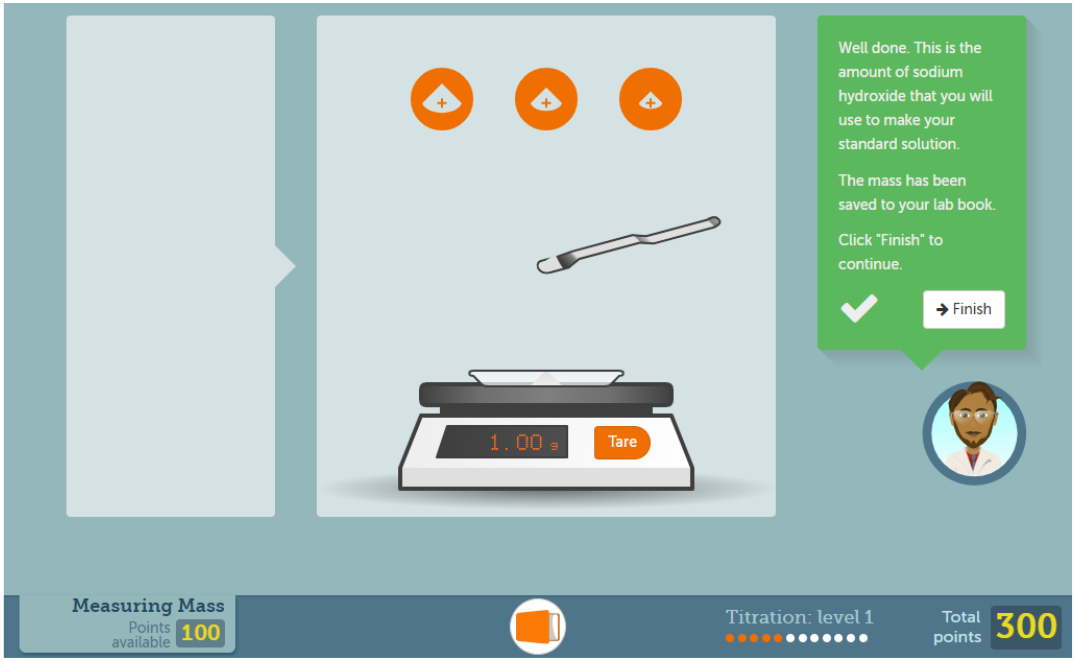



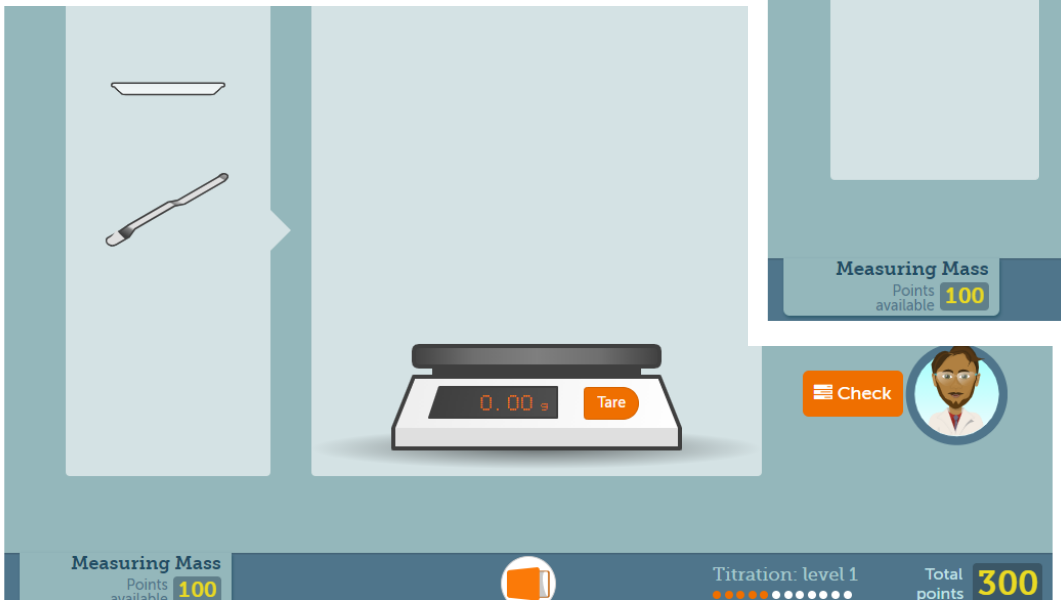




ROYAL SOCIETY OF CHEMISTRY

# Titration On Screen Experiment

## Weighing NaOH

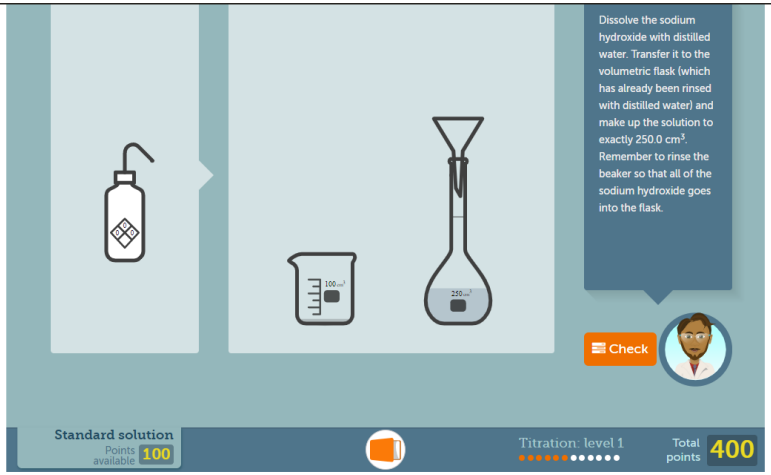


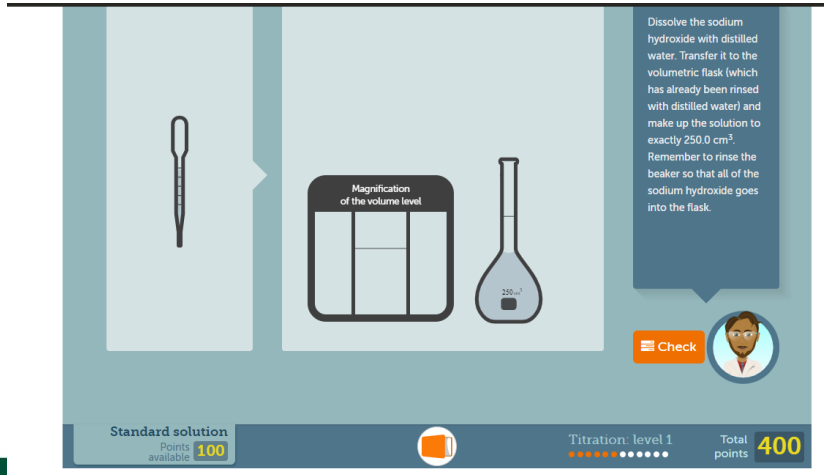



# Titration On Screen Experiment



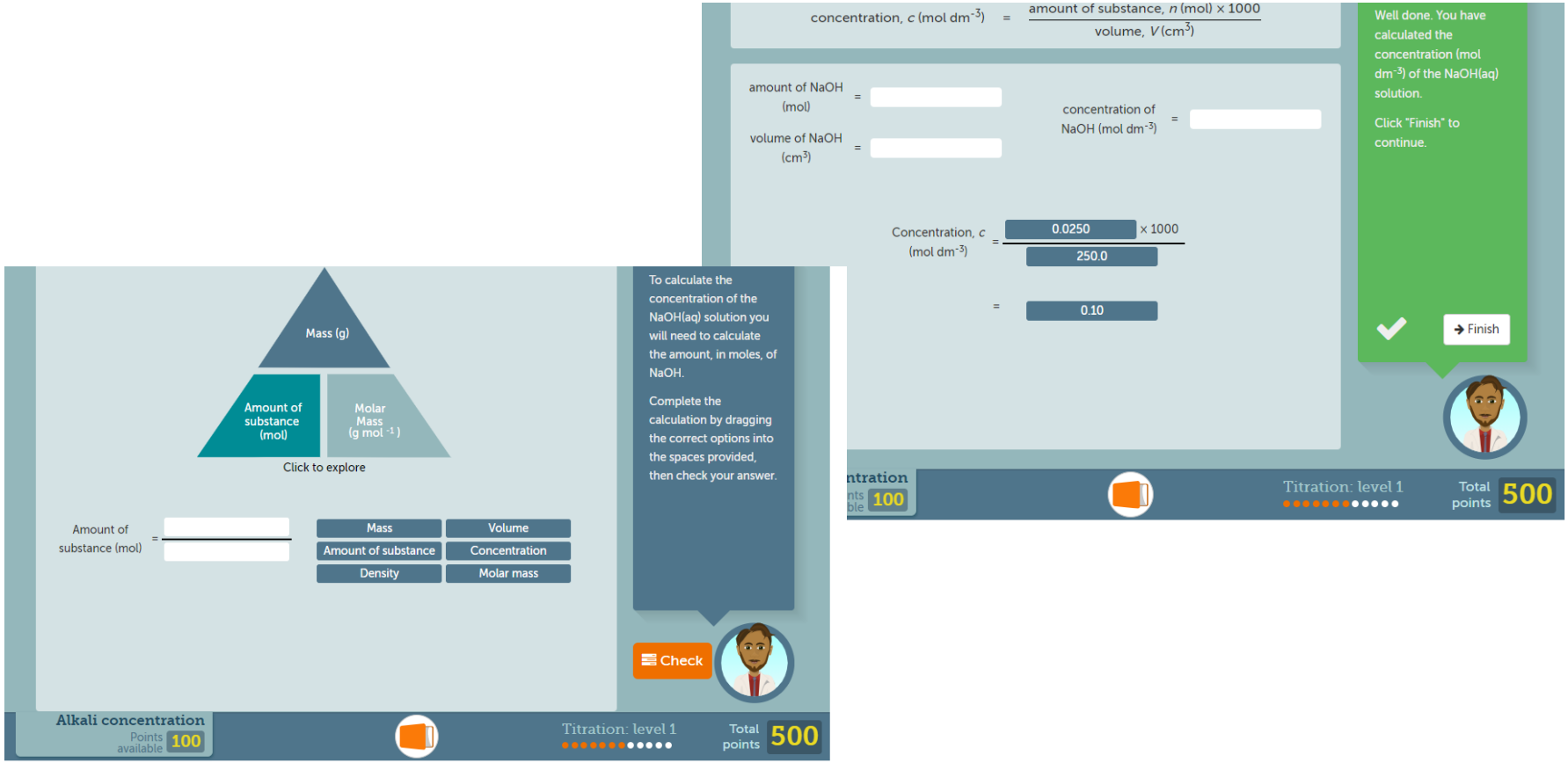
# Preparing NaOH standard solution



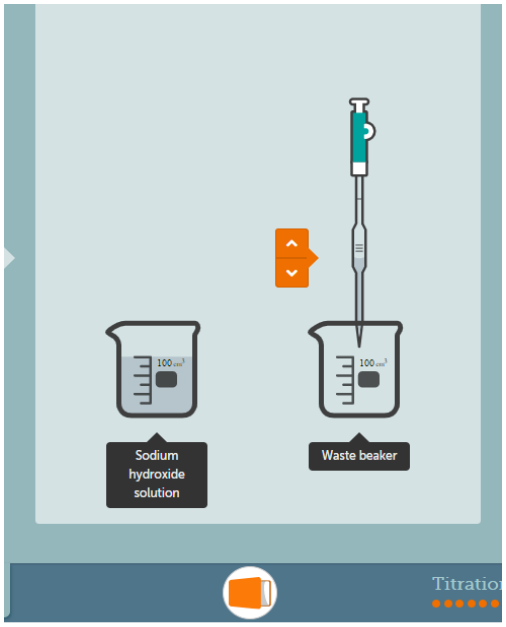



# Titration On Screen Experiment

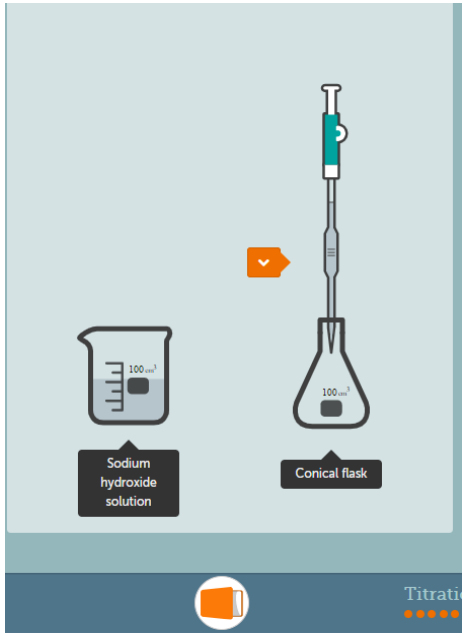
## Calculating concentration of NaOH standard solution



# Titration On Screen Experiment







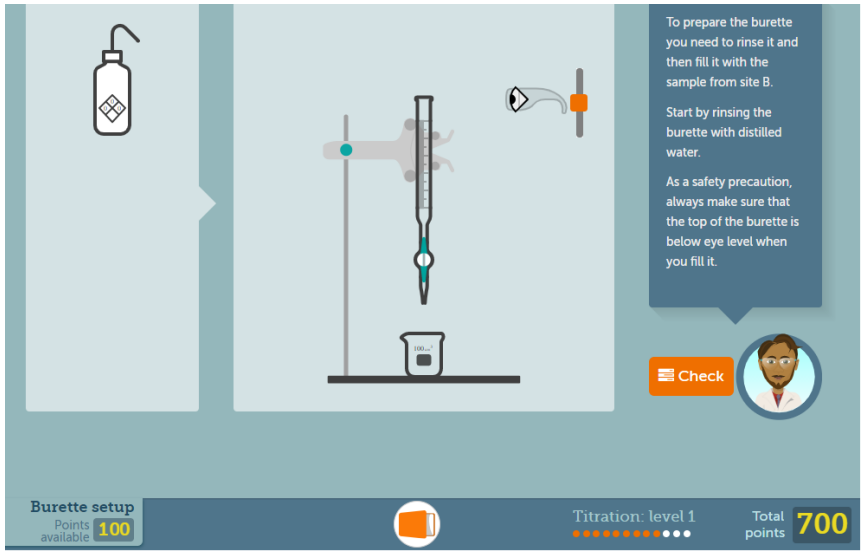


Transferring NaOH solution into conical flask

Rinsing pipette

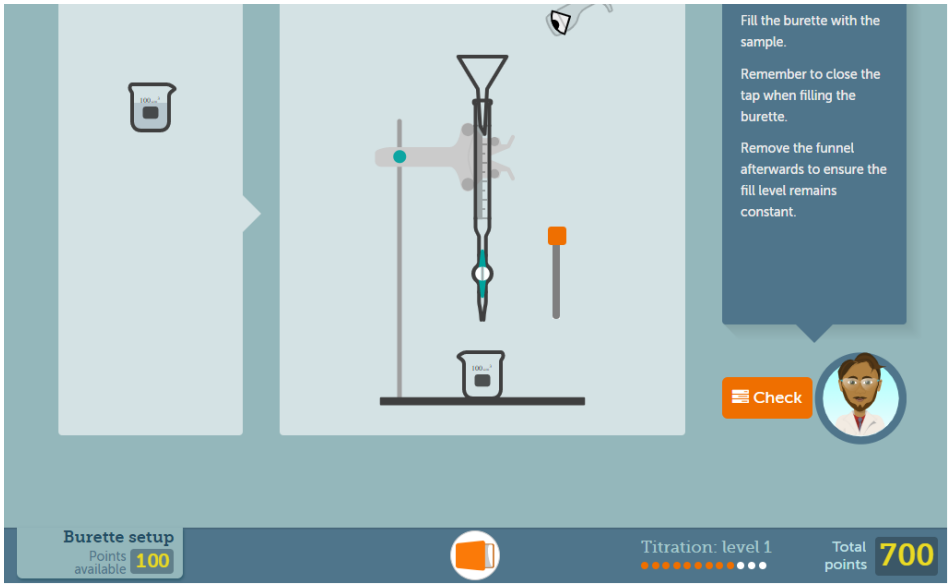
Addition of indicator

# Titration On Screen Experiment

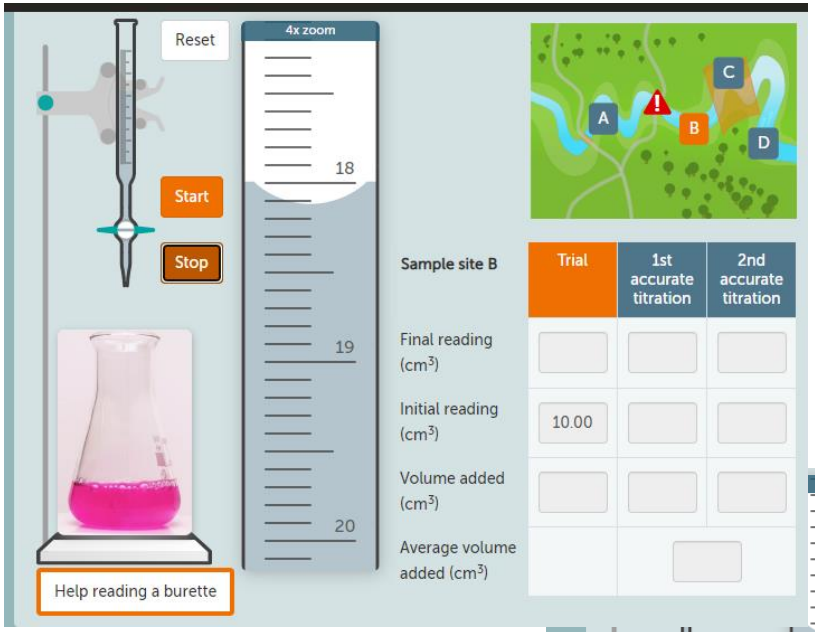


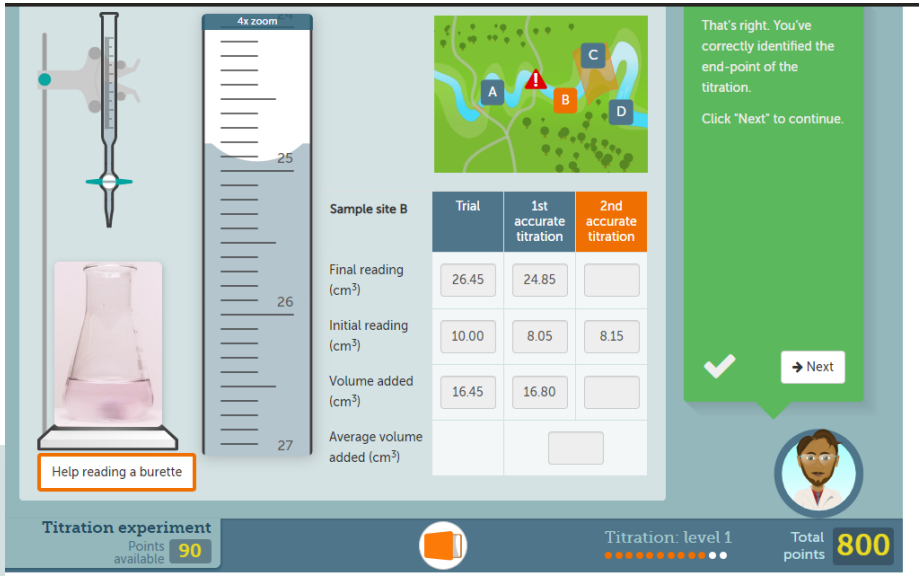

Rinsing burette

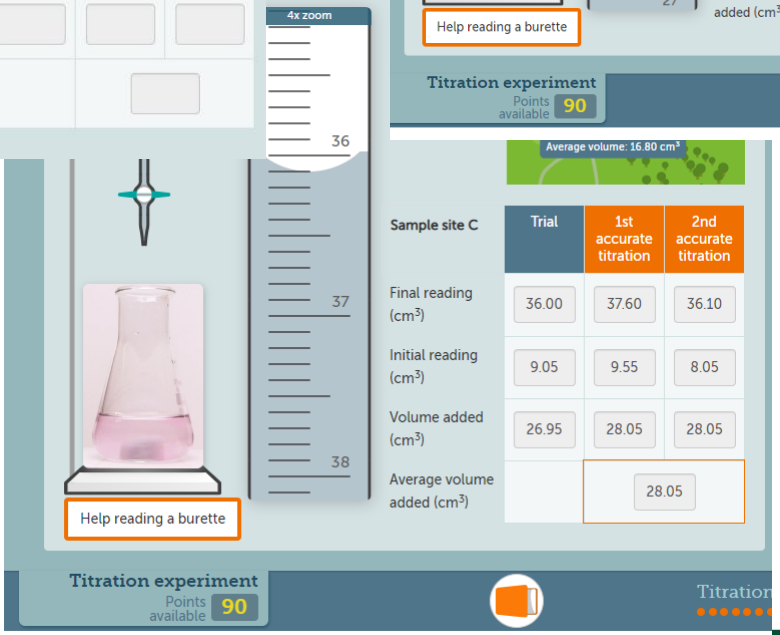
Adding HCl solution to the burette



# Titration On Screen Experiment



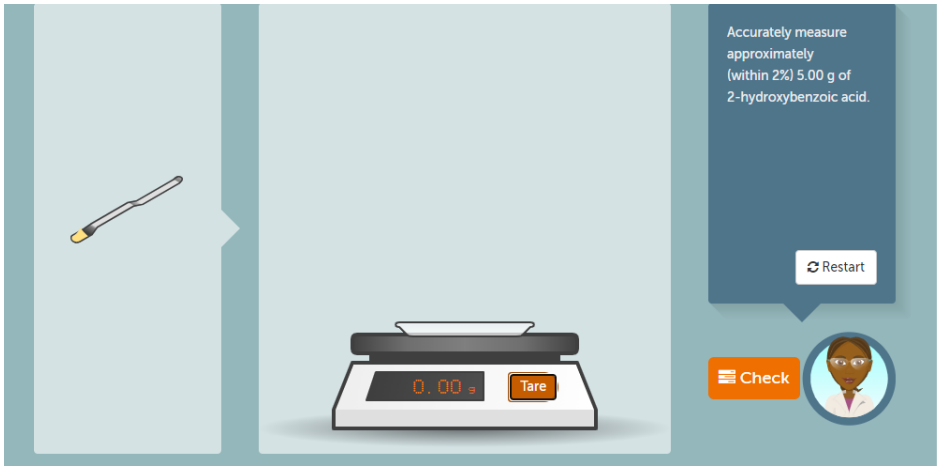



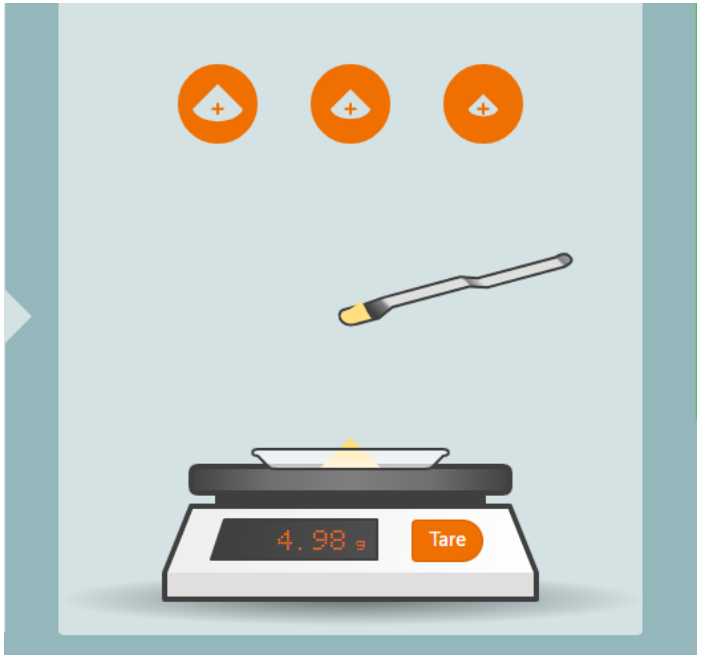



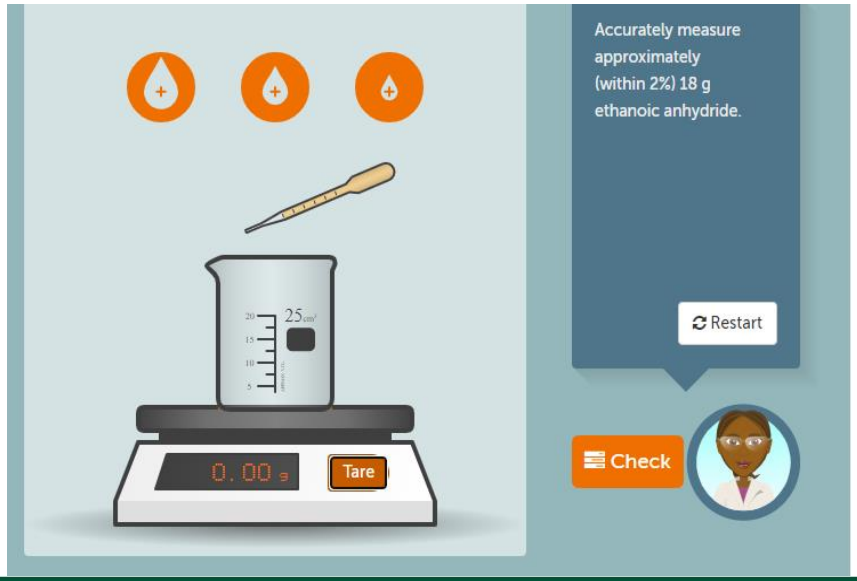

Carrying out the titration
Trial run and then multiple runs

# Aspirin On Screen Experiment

# Aspirin On Screen Experiment

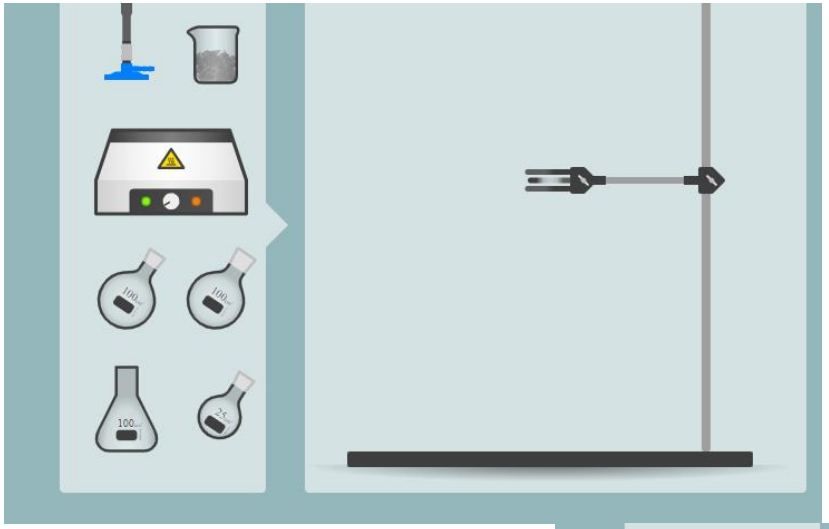


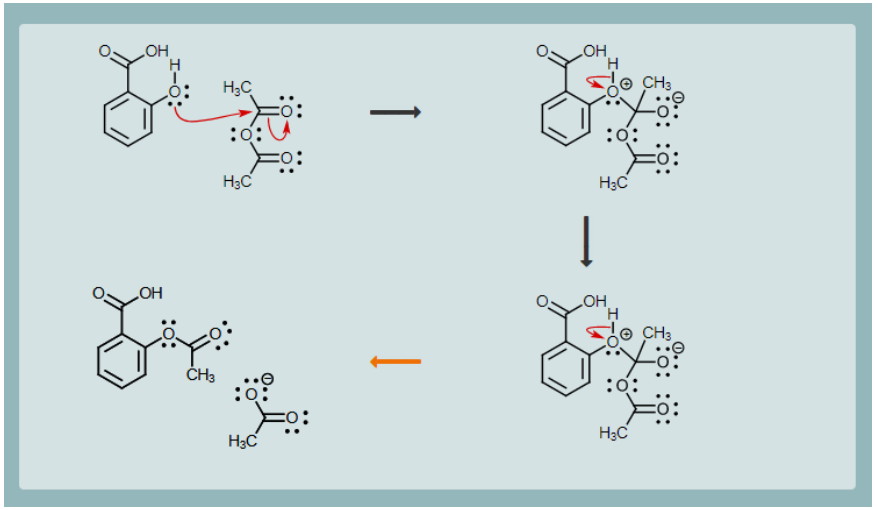




Weighing starting materials

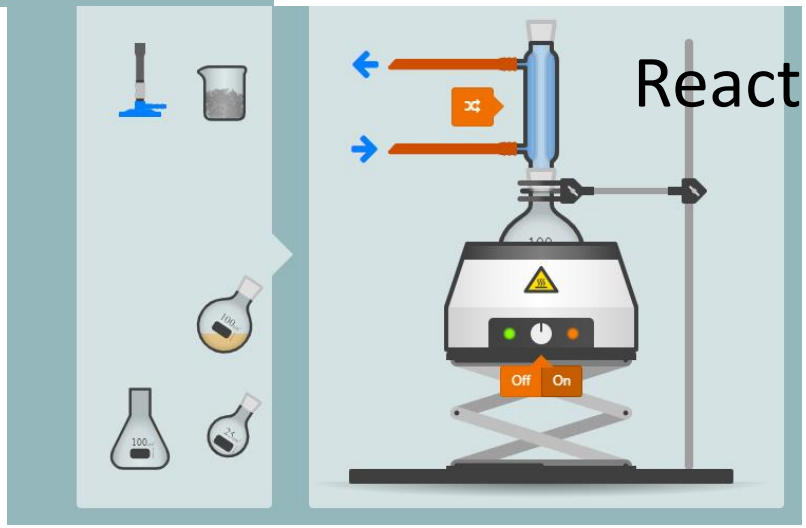
# Aspirin On Screen Experiment



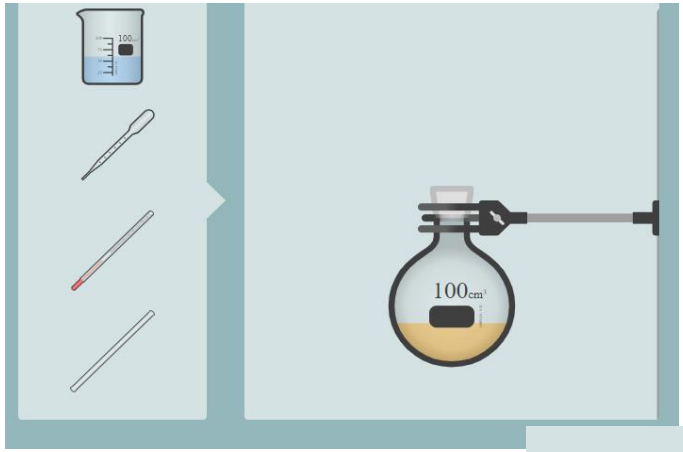


Reaction Mechanism

Reflux Set Up

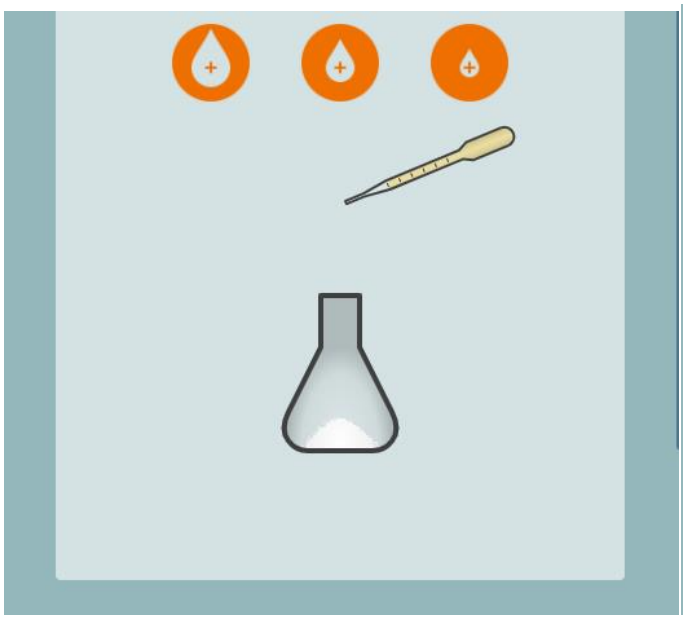


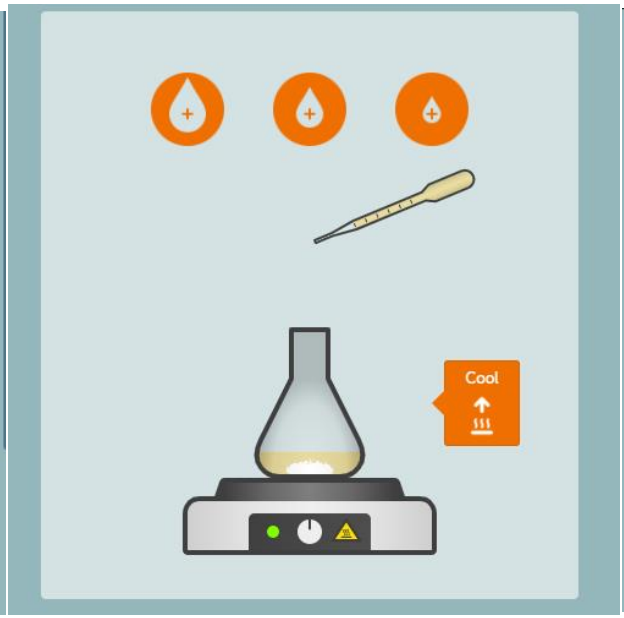
# Aspirin On Screen Experiment




Isolating crude aspirin via precipitation


# Aspirin On Screen Experiment

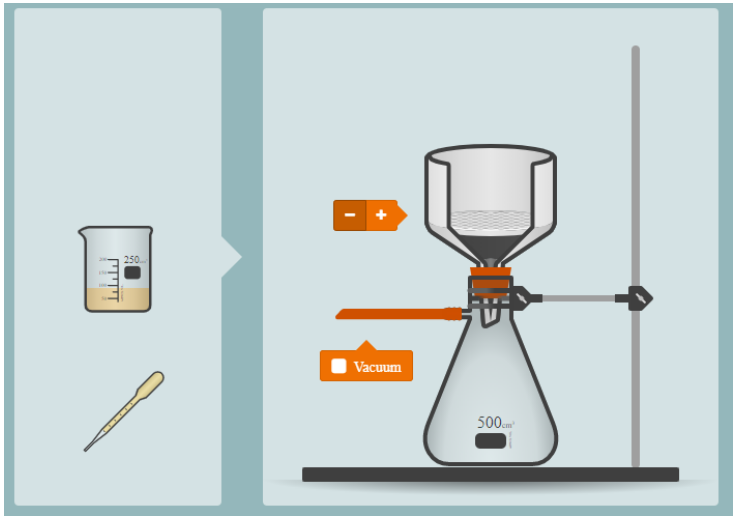




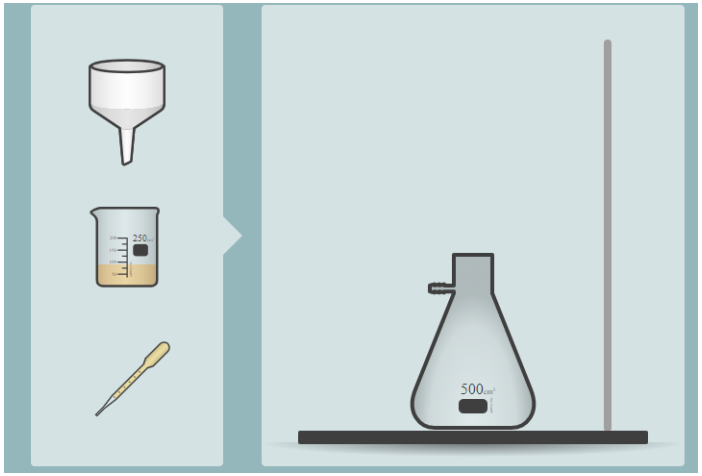


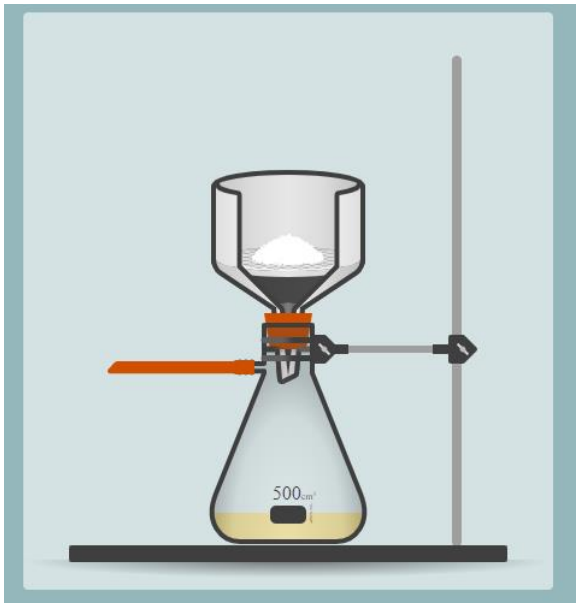
Recrystallization

# Aspirin On Screen Experiment




Vacuum filtration to collect purified aspirin





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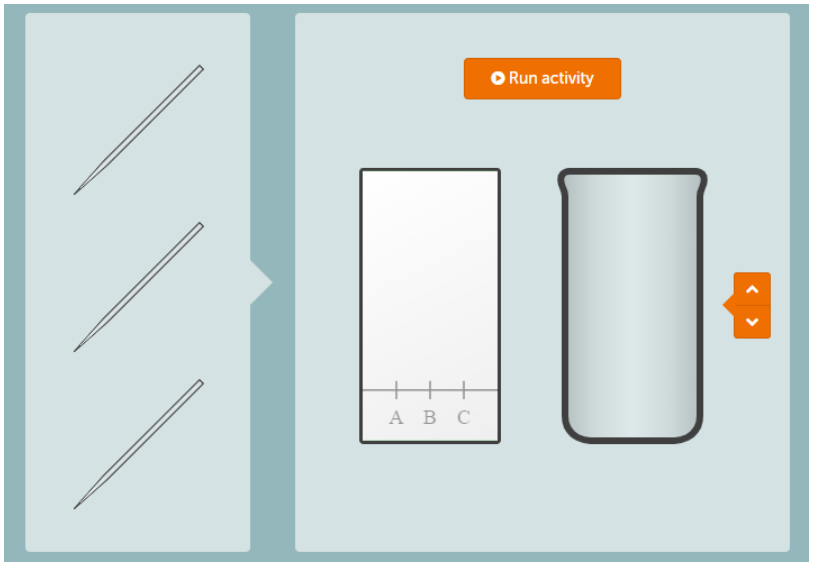


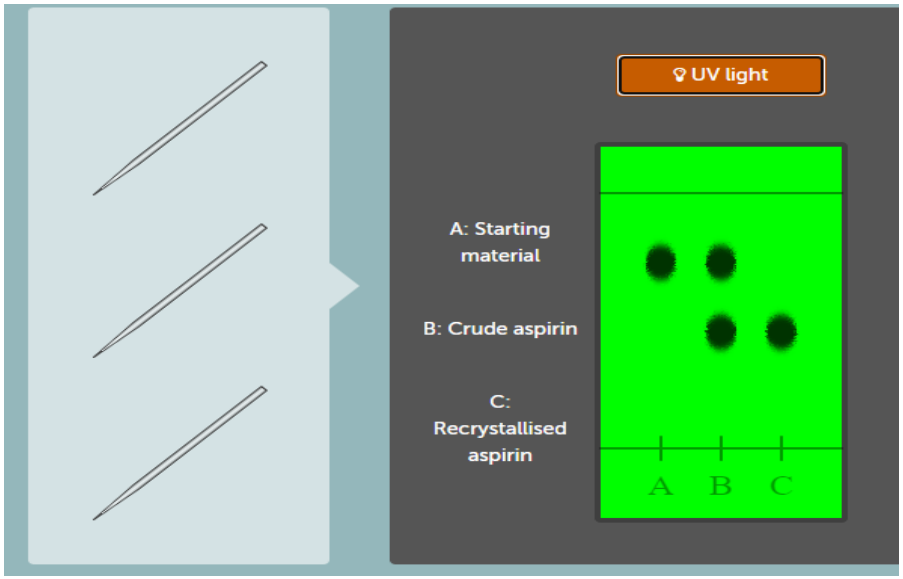


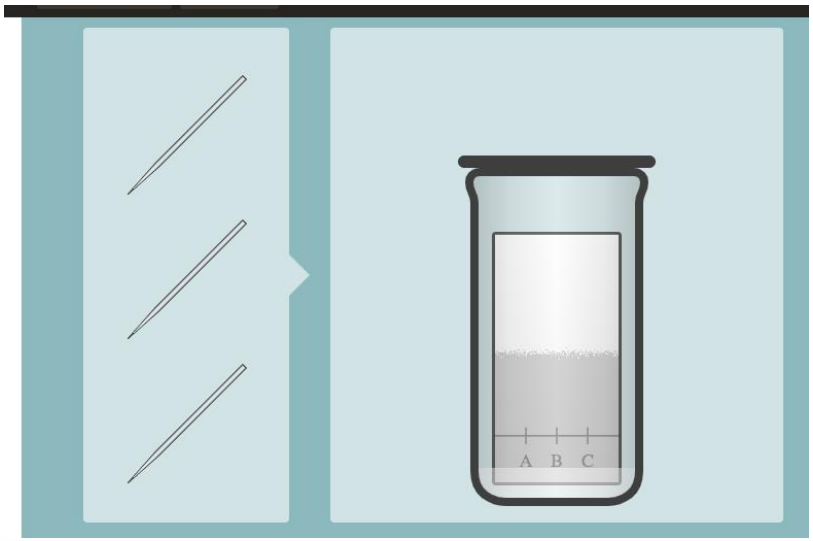


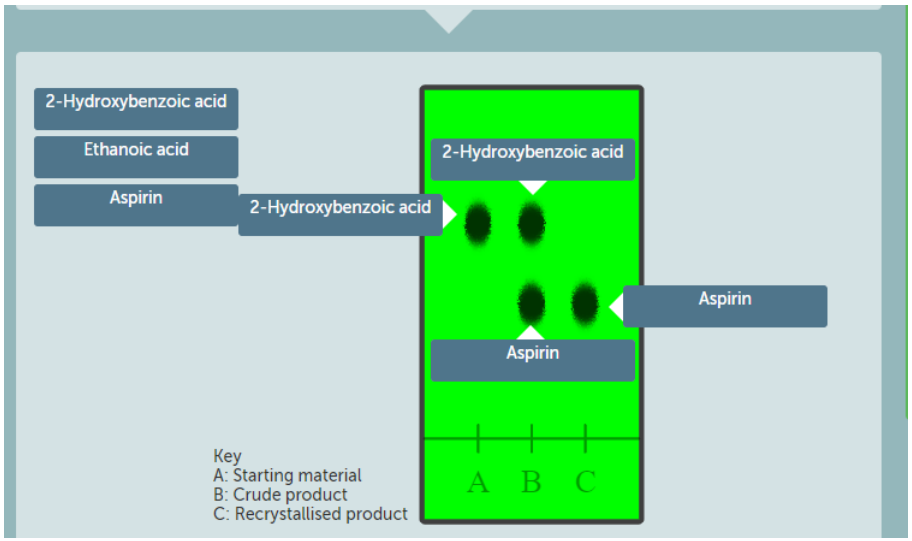

# Additional Notes

- Titration Teacher Notes
- Aspirin Teacher Notes
- https://edu.rsc.org/resources/collections/screen-experiments (Overview)
- User number: 1639748365