

1st Screen

Experiments home Titration home Register Log in

Titration screen experiment

Quickstart

Log in

Register

Click on

ROYAL SOCIETY OF CHEMISTRY

LearnChemistry
Enhancing learning and teaching

This resource has been developed in partnership with Learning Science and the University of Bristol

Learning Science University of BRISTOL

Then your fist name and click on Register

Experiments home Log out

Enter your first name or initials:

Register

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The screenshot shows a web browser window with the URL www.rsc.org/learn-chemistry/resources/screen-experiment/register_success. The page displays the user's registration details:

- Experiments home Log out
- User number: 6938036017
- Hello MZVV you are now logged in.
- This is your user number. When you return to the site you can use this number to log into the site and retrieve your progress.
- To keep a record of this number please print this page from your browser and keep it safe.
- [Return to screen experiment](#)

An arrow points to the "Return to screen experiment" link with the text "Click on".

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Then you will see this screen

The screenshot shows the "Screen experiments" page for the user MZVV. The page displays the following information:

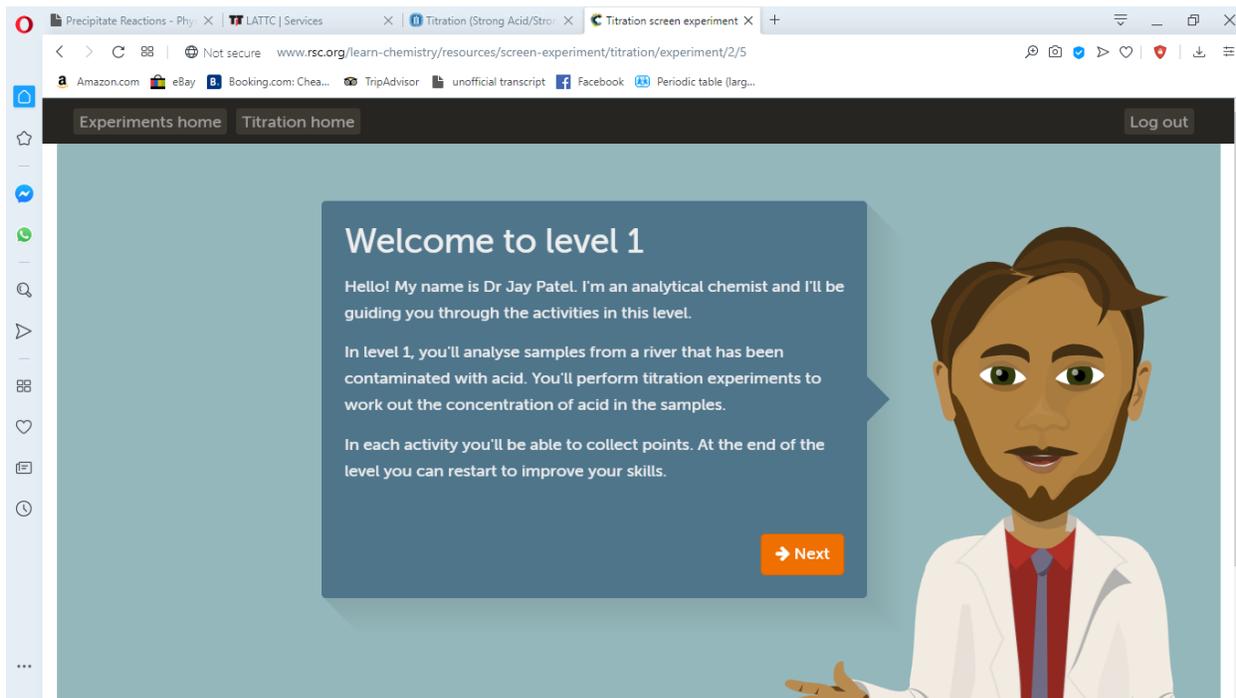
- Experiments home Titration home Log out
- Screen experiments
- Logged in as: MZVV
- Badges earned 0 / 4
- Titration

Four titration levels are listed:

- Titration level 1**
Not started
Determine the concentration of hydrochloric acid in a contaminated stream by performing a strong acid - strong base titration.
[Start this level >](#)
- Titration level 2**
Determine the amount of aspirin in a batch of tablets by performing a weak acid - strong base titration.
- Titration level 3**
Determine the concentration of ammonia in a consignment of hair product by performing a strong acid - weak base titration.
- Titration level 4**
Determine the amount of iron in a batch of diet supplement tablets by performing a redox titration.

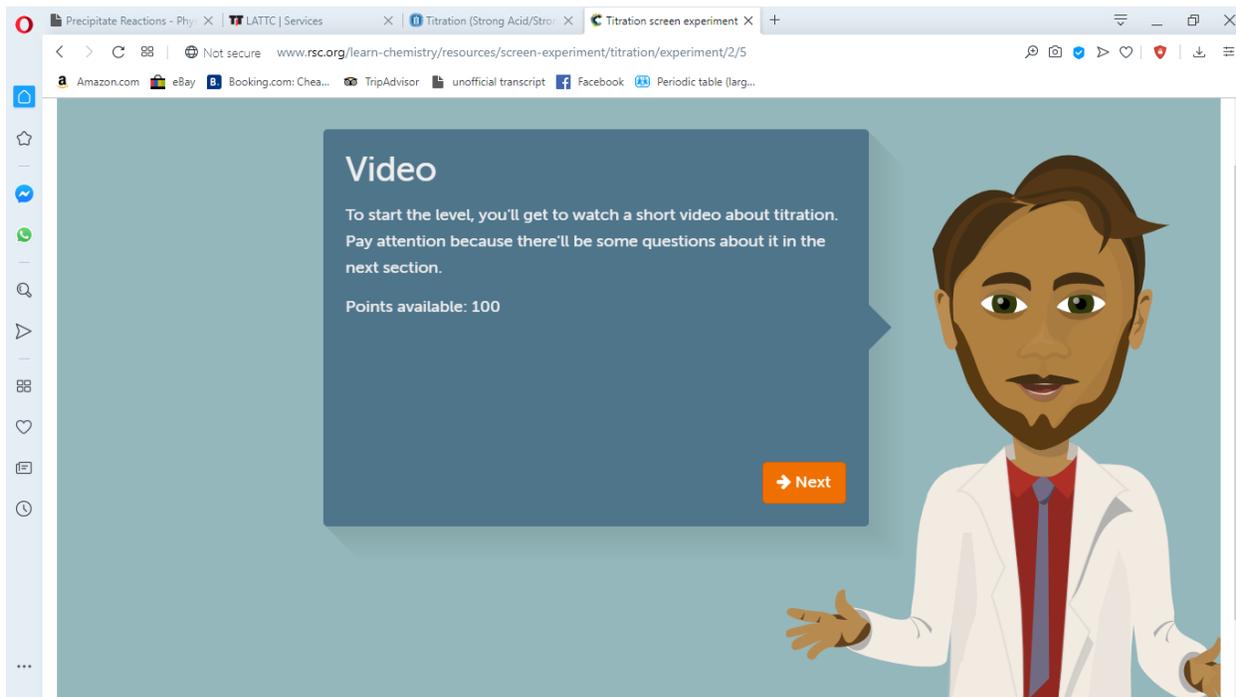
Click on level one, This will be the only one you will perform

You will then come to this screen:



Start clicking Next, you will see a series of activities, if you mess one up you won't be allowed to move on until you get it right. Take your time as some of these activities will deduct points!

Clicking next will take you to this screen



Precipitate Reactions - Phy | LATTTC | Services | Titration (Strong Acid/Stron... | Titration screen experiment X +

Not secure www.rsc.org/learn-chemistry/resources/screen-experiment/titration/experiment/2/5

Amazon.com eBay Booking.com: Chea... TripAdvisor unofficial transcript Facebook Periodic table (larg...

Titration screen experiment:
The contaminated stream

ROYAL SOCIETY OF CHEMISTRY

0:00 / 3:20

First watch this video about titration and then click "Next" to review your knowledge.

Next

You will watch a video and start following instructions.

You will have small quizzes like this:

Precipitate Reactions - Phy | LATTTC | Services | Titration (Strong Acid/Stron... | Titration screen experiment X +

Not secure www.rsc.org/learn-chemistry/resources/screen-experiment/titration/experiment/2/5

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Experiments home Titration home Log out

does not dissociate Hydrochloric acid
partially dissociates
fully dissociates when dissolved in water.

acidic The pH of water is approximately 7, which means it is
alkaline
neutral

an indicator When an acid and alkali react to form water and salt it is called
an acidification
a neutralisation reaction.

unknown A titration experiment can be used to determine the
concentration
known concentration
volume of acid using a known concentration of base.

point of neutralisation An indicator helps us to see the
ionisation point
burette reading during a titration

Drag and drop the correct answer

Complete these five statements by dragging the correct option into the space provided, then check your answer.
(Maximum attempts: 5)

Check

You will then start the titration:

Acids and alkalis

In this activity you'll look at how the acidity or alkalinity of a solution affects its pH.

Points available: 100

For each step you'll have up to 3 attempts to complete this activity.

Each incorrect attempt will decrease your score by 10 points.

Next

Be careful, each incorrect attempt will cost you 10 pts

As you answer the quiz questions you will get to the following screen where you start measuring NaOH. I intentionally caused an error so you could see the screen and what it looks like

Experiments home Titration home Log out

You forgot to zero the balance.
Remember to tare after you place the weighing boat onto the balance.

Restart

1.00 g Tare

Okay look at the message after you finish measuring the amount of base:

Activity complete

You scored 90 points and your progress and data have been saved to the lab book.

The sodium hydroxide has been transferred to a beaker.

If you choose to take a break you can log back in from this point.

Next, you'll prepare a solution of sodium hydroxide.

Review lab book Next activity

All of your work is saved in a virtual lab notebook.

Again I overshot the amount of water, look at the message:

You have added too much water to the flask. This solution will need to be discarded.

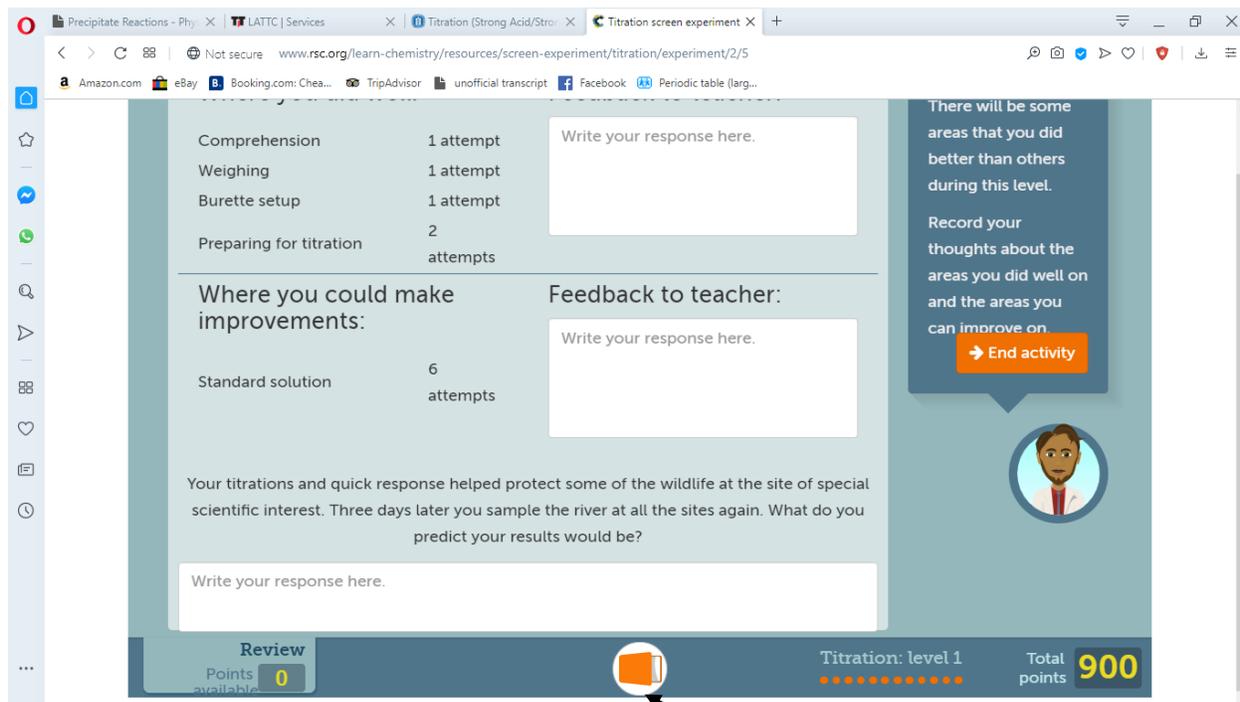
You need to add enough water so that the bottom of the meniscus is exactly in line with the calibration mark on the flask.

A new solution has been prepared for you to try again.

Restart

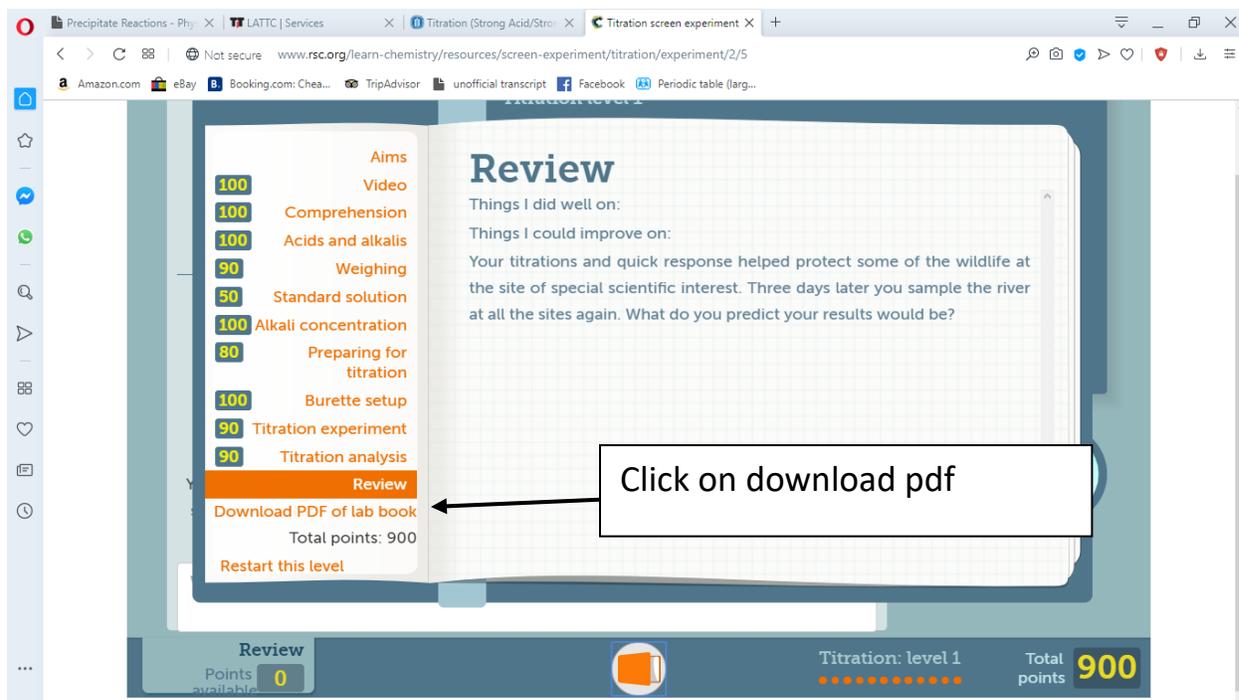
And the rest is the same just follow instruction. At the End of the

When you get to this page



Click on the notebook icon

Then you will see



Click on download pdf

The screenshot shows a web browser window with the URL www.rsc.org/learn-chemistry/resources/screen-experiment/titration/experiment/2/5. The page is titled "Titration screen experiment" and features a "Review" section. On the left, a list of activities and their scores is shown:

- Aims: 100
- Video: 100
- Comprehension: 100
- Acids and alkalis: 100
- Weighing: 90
- Standard solution: 50
- Alkali concentration: 100
- Preparing for titration: 80
- Burette setup: 100
- Titration experiment: 90
- Titration analysis: 90
- Review: 0

Below the list, there is a "Download PDF of lab book" button and "Total points: 900". A "Restart this level" button is also present. The "Review" section on the right contains the following text:

Review

Things I did well on:

Things I could improve on:

Your titrations and quick response helped protect some of the wildlife at the site of special scientific interest. Three days later you sample the river at all the sites again. What do you predict your results would be?

A download notification for "Titration-level-1-labnotebook (1).pdf" is visible in the top right corner, indicating "Download complete".

Open the pdf and save under (yourname-titration ; M.Visi-Titration).