

Department of Chemistry - Macquarie University

Student Learning Experiences in the Laboratory

This survey will be used by the Department of Chemistry for the purpose of maintaining or improving the quality of this experiment for teaching purposes. Your cooperation in completing this anonymous form is greatly appreciated. It is not connected in any way to your assessment for this unit. Completion of this survey is voluntary.

Occasionally we would like to release this information into the public domain, for instance through presentations at conferences and publication in articles for journals. Such publication encourages discussion on good teaching practice. We would appreciate receiving your permission to publish your anonymous comment. If you **do not** wish to release your comments, please tick the box below.

I do not give permission for my comments to be used beyond the Department of Chemistry, Macquarie University.

The ethical aspects of this study have been approved by the Macquarie University Ethics Review Committee (Human Research). If you have any complaints or reservations about any ethical aspect of your participation in this research, you may contact the Committee through the Research Ethics Officer (telephone [02] 9850 7854, fax [02] 9850 8799, email: kdesilva@vc.mq.edu.au). Any complaint you make will be treated in confidence and investigated, and you will be informed of the outcome.

Unit: CHEM102

Experiment Name or Number: EXPERIMENT 5 – QUALITATIVE ANALYSIS

1 Did this experiment help you to understand the theory and concepts of the topic? If so, how, or if not, why not?

Yes. Gained understanding and saw first hand the theory.

Yes. There is preparation work so that it makes me look up the practical procedure and particular topic which is relevant to this experiment. And after the prac, get result and correct my work and revise what I did.

No. I already knew most of it from Yr. 12, but reinforcing it was useful.

Yes, it demonstrated all the things that the theory tells about.

No. Solubility isn't a complex topic to understand.

Yes, by demonstrating principles learned in class.

Yes.

Yes, more likely to remember results after having performed the experiment.

Yes. Fully.

[REDACTED]

[REDACTED]

[REDACTED]

2 How is this experiment relevant to you in terms of your interests and goals?

It is not.

Well.

Part of the unit for my course.

It was fun.

It provides changes for problem solving.

Interest = chemistry; experiment = chemistry; therefore, interest = experiment

Gaining marks.

Not very. Done it a million times before.

No. (?)

[REDACTED]

[REDACTED]

[REDACTED]

3 Did you find this experiment interesting? If so, what aspects of this experiment did you find of interesting? If not, why not?

No. Pracs are not interesting. I would rather not do them.

Yes.

Yes. I enjoy mixing chemicals and watching them change colour.

Yes. Colour change.

No maths, it was pure chemistry and deduction.

Yes, making cool chemicals that are all pretty colours.

Some experiments are interesting, when it's not complicated and too long. Hopefully can finish in 3 hours instead of 4 hours.

No really done it a million times before.

No, because chem lab smells. Seriously(?) dawgg??

[REDACTED]

[REDACTED]

[REDACTED]

4 Can the experiment be completed comfortably in the allocated time? Is there time to reflect on the tasks while performing them?

It can be completed. But there is not enough time to reflect on the theory behind them.

Yes.

Yes.

Yes.

Time is enough. No time to reflect unless you can think on your feet. The way it should be.

Yes, provided that we don't get evacuated from the building for 45 min and that we don't have to fill out a survey too.

Yes.

Not with fire alarms.

Yes.

[Redacted]

[Redacted]

[Redacted]

5 Does this experiment require teamwork and if so, in what way? Was this aspect of the experiment beneficial?

Yes. Helping each other get results and confirm results. Teamwork is always beneficial.

Yes.

No.

No.

No.

No.

It would be more efficient to do it in teamwork.

N/A other than sharing equipment.

No.

[Redacted]

[Redacted]

[Redacted]

6 Did you have the opportunity to take responsibility for your own learning, and to be active as learners?

No.

Yes.

Yes. Lack of teamwork means you have to think for yourself.

Yes.

Everything is written out. What's to learn? This was an experiment in detective work. Leave the learning in the classroom.

Yes.

Yes.

Yes.

Yes.

Definitely no.

Yes.

Yes.

7 Does this experiment provide for the possibility of a range of student abilities and interests? If so, how?

No.

Yes.

Yes. It's fairly easy.

Yes.

It wasn't a diverse experiment. It was about one topic. It included no advanced methods.

Yes – pretty easy to understand basic concepts, and follow instructions – still challenging to get the experiment right.

No.

Not really.

No.







8 Did the laboratory notes, demonstrators' guidance and any other resources help you in learning from this experiment? If so, how?

Yes. Lab notes were helpful in giving instructions. Demonstrators guidance is always useful.

Yes.

Yes. They helped me complete it.

The lab notes were excellent.

The notes were very useful in expediting the experiment.

Lab notes invaluable – wouldn't know what to do otherwise. Danny Wong (demonstrator) always willing to answer questions.

Yes, they helped a lot when we don't understand the question.

Yes they are very, and very clear.

Yes. Backbone to experiment.







9 Are there any other features of this experiment that made it a particularly good or bad learning experience for you?

No.

Yes.

Interestingly coloured chemicals are fun.

No.

Problem solving rather than simply measuring.

Staying till 6 pm on a Friday because of a survey is making it worse every minute.

When I cannot finish on time.

N/A

No.







10 What improvements could be made to this experiment?

None.

Yes.

No improvement I think, because it seemed to be a fairly easy one.

The first half consists of tests which we already know the answer to, a waste of time.

No evacuations of building 10 min after it starts – it kinda interrupts the flow a bit.

Shortening length. Not having to determine solubility rules.

Less smell in lab.



11 Any Other Comments

Yes. Too long.

No.

Yes.

Nishen smells bad.

N/A.