

YouTestTube.com - video sharing to promote reflection in year one chemistry laboratory sessions

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BMS105 Introductory Chemistry

Chemistry 'service teaching' module

Provides foundational chemistry for further study in biochemistry, clinical biochemistry, molecular biology etc.

Taken by students in Biomedical Sciences, Pharmacology, Human Nutrition, Food and Nutrition, Dietetics & Biology

176 students in 2005/06; 123 in 2006/07; 140 in 2007/08; 138 in 2008/09; 160+ expected in 2009/10

Student Engagement in the Lab

I hope he read the protocol before lab because I didn't!

I hope she read the protocol before lab because I didn't!



Student Engagement in the Lab

Social interaction was recently highlighted by students as one of the better features of university laboratory classes

Students claim they sometimes do not see the relevance of practical sessions

Practicals are time & resource-intensive teaching sessions

How can we add value to the lab experience?

Collis et al 2007 Report: The Student View of 1st Year Laboratory Work in Biosciences. Centre for Bioscience.
Collis et al 2008 Bioscience Education electronic Journal, volume 11.

You  **Tube**

Broadcast Yourself



TestTube.com

an online science video resource

Materials & Methods

3 x Canon FS11 Video Cameras

1 x Toshiba Laptop

1 x Webserver

Vidiscrypt.com* software
(to make You Tube clone site)

Video conversion software
(www.any-video-converter.com*)

Domain name (YouTestTube.com)

138 eager year-one students



*Disclaimer: we do not in any way endorse the websites listed above, their products, content or linked content.

Materials & Methods (continued)

Students (in groups of 3 or 4) make a short video about their practical

A “reflective prompt” sheet is provided to each group as to what should be included in the video

Final video is published “uncut” onto the YouTestTube.com website

Materials & Methods (continued)

Students “join” the Chemistry Practicals Group on YouTestTube.com

Students may then view, rate & comment on their colleagues’ videos

They may also ‘make friends’ as part of the social networking aspect of the site.

A prize for the most ‘Popular’ and ‘Highly Rated’ videos.

Reflective Prompts

What is this practical all about?

What skills have I developed?

How does this practical tie-in with the lectures?

How will this be important for other parts of my course?

Reflective Prompts

What parts of the practical were difficult?

What was most/least enjoyable about the practical?

If someone else was about to conduct this experiment; what advice (about the practical) would I give them?

Home

Top Rated

Popular

Members

Groups

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Most Viewed Media

[all time](#) | [today](#) | [this week](#) | [this month](#)



Osmosis Video 4 BiomedPharmBio Cohort

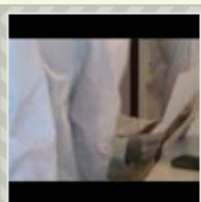
Made by Victoria, Jennifer, David and Rory!

tags: [osmosis](#)



From [smcclean](#) on: 10.14.08

views: 611



Calorimetry BiomedPharmBio Video 1

Made by Scott, Emma, Adam & Lara!

tags: [calorimetry](#)



From [smcclean](#) on: 11.05.08

views: 443



Osmosis Video 1 Nutrition Cohort

Made by Donna, Andrea, Aoife and Grace!

tags: [osmosis](#)



From [smcclean](#) on: 10.13.08

views: 316

Menu

Logged in as smcclean

- **Account Management**
- Inbox : 1 (0 new)
- Outbox : 3 (0 unread)
- My Friends : 13
- Received Requests : 10
- Sent Requests : 0
- Blocked Members : 0
- Subscriptions : 0
- Favorites : 0
- My Media : 41
- My Groups : 2
- My Profile
- History
- Profile Views

Admin Menu

- New Uploads (1 New)
- Manage Media
- Manage Users
- Manage Video Ads
- Manage Site Ads
- Manage Categories
- Manage Email Text
- Manage Menus
- Bad Words Filter
- Site Settings

But Was it Any Good...?

Feedback received from students via anonymous questionnaire

Via staff-student consultative meetings

Via evaluative comments when completing their assignment on “The YouTestTube.com Experience”

Student Responses to Evaluation Statements

Total respondents n = 105

| Statement | Strongly Agree | Agree | Neither Agree / Disagree | Disagree | Strongly Disagree |
|------------------------------------|-----------------------|--------------|---------------------------------|-----------------|--------------------------|
| Initially Apprehensive | 24 | 66 | 9 | 5 | 1 |
| Camera Easy to Use | 26 | 59 | 12 | 6 | 2 |
| Enjoyed Making Video | 17 | 59 | 17 | 9 | 3 |
| Think More About Practical | 16 | 38 | 26 | 22 | 3 |
| Enjoyed Viewing Colleagues' Videos | 19 | 54 | 20 | 9 | 3 |
| YouTestTube easy to use | 26 | 60 | 7 | 9 | 3 |
| Helped to Make Friends | 9 | 24 | 42 | 27 | 3 |

Student Comments

“Good way to make friends within class.”

“www.youtesttube.com is a great way to interact with the class as well as learn from the practicals completed throughout the semester. it is a great idea!”

“Was fun to do, and the videos helped in revision for the test.”

“i think its a great idea to have a site like this so everyone can share comments and get to know everyone in their year!”

Student Comments

“Fantastic idea! Being able to watch the practicals shows you what you need to improve on and reminds you exactly what happened in the course of the experiment. Highly entertaining, makes you want to participate and increases enthusiasm towards practicals.”

“Found youtestube.com to be quite useless. Although it was good craic making the videos i still dont see the need for it at all!!!” (‘craic’ = ‘fun’)

Staff Reflections / The Way Ahead

Overall a good experience, relatively easy to manage

Process of getting video from camera slow and cumbersome

Students will be given greater ownership of videos next academic year (editing / uploading etc.)

Embed the process fully in the BMS105 module

Acknowledgements

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Student **T**ransition **A**nd **R**etention

(The STAR Project)

www.ulster.ac.uk/star

JISC Tech**Dis**