

Inspiring the You Tube™ generation with reflective videos of practical classes

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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, Human Nutrition, Food and Nutrition, Dietetics & Biology
- 176 students in 2005/06; 123 in 2006/07; 140 in 2007/08; 138 in 2008/09; 177 in 2009/10; 117 in 2010/11

Student Engagement in the Lab

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

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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? Can we “extend 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 [i](#)
- Vidiscript.com software (to make You Tube clone site)
- Video conversion software (www.any-video-converter.com)
- Domain name (YouTestTube.com)
- 160+ eager year-one students



Materials & Methods (continued)

- Students (in groups of 3 or 4) make a short (10 minutes duration) 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

Log Out

Upload



Newest Members

[more members >>](#)



Latest Media



office

office

views: 4

Not rated yet



The Biomed Christmas Factor

Our Christmas Sin...

views: 102



Benzophenone BiomedPharmBio Video 2

Made by Declan, D...

views: 115



Benzophenone BiomedPharmBio Video 1

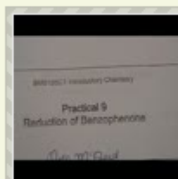
Made by Amy, Stac...

views: 57



Benzophenone Nutrition Video 2

Made by Caoimhe, ...



Benzophenone Nutrition Video 1

Made by Orla, Joa...



Ethyl Ethanoate BiomedPharmBio Video 2



Ethyl Ethanoate BiomedPharmBio Video 1

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 : 40
- My Groups : 2
- My Profile
- History
- Profile Views

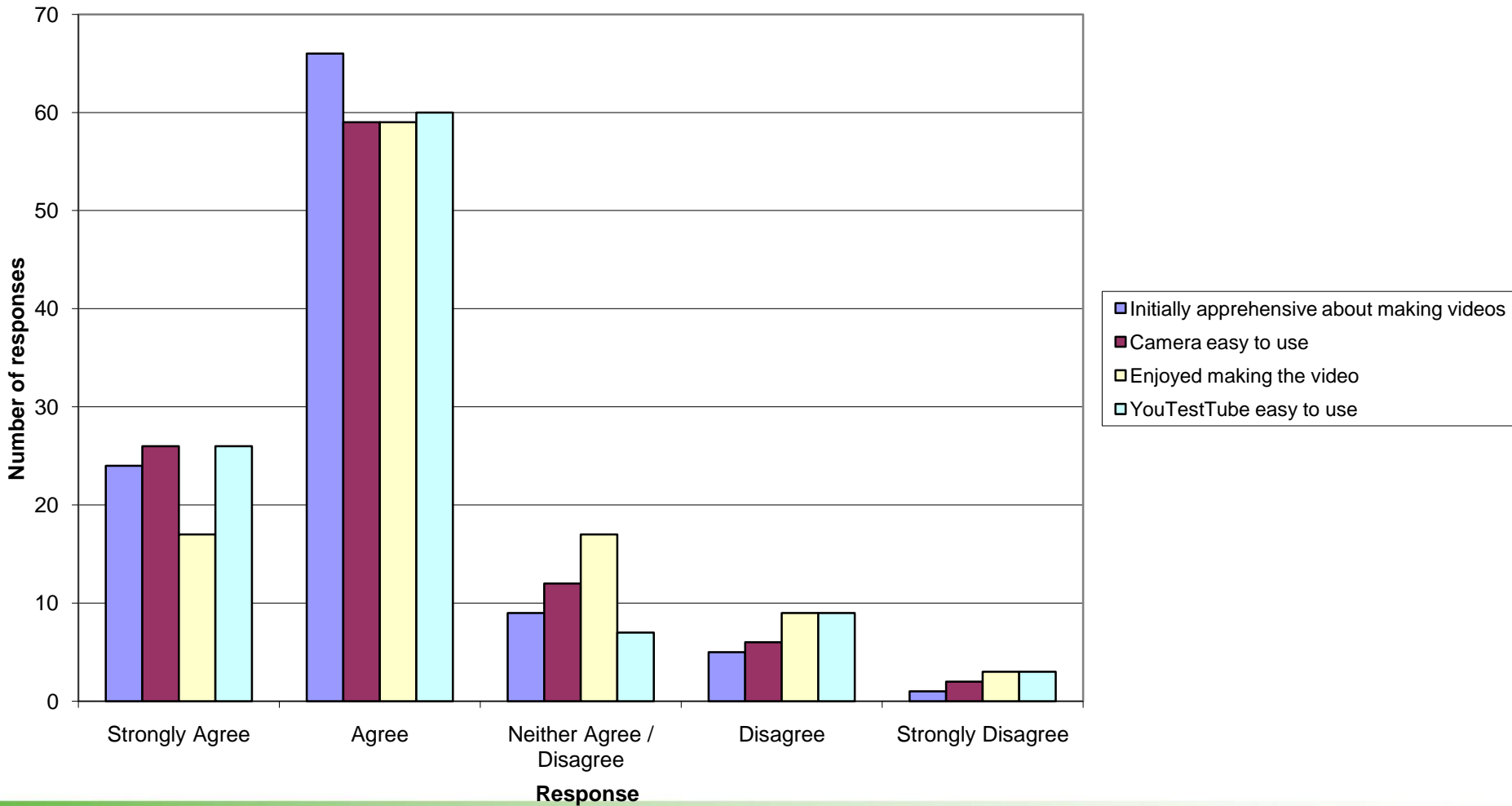
Admin Menu

- **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
- Buy & Manage Extras
- VidiScript Forums

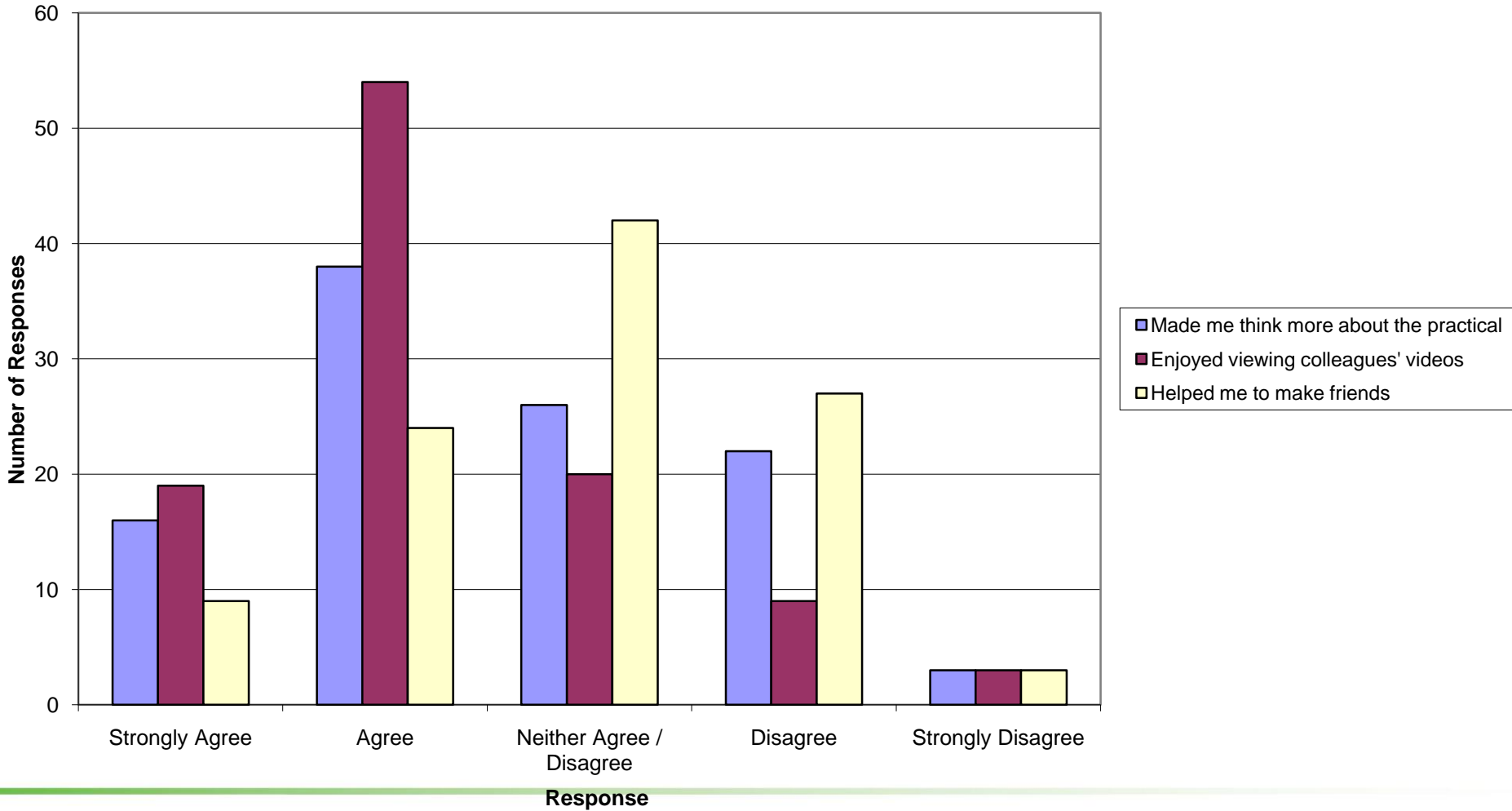
But Was it Any Good...?

- Feedback received from students via anonymous questionnaire
- Via staff-student consultative meetings
- Via evaluative comments when completing their assignment on “The YouTestTube.com Experience”
- Various aspects of evaluation available for the years 2008/09 to 2010/11

Student Responses to Technical Aspects of the YouTestTube.com Project



Student Responses to Reflective Aspects of the YouTestTube.com Project



Comments from 2008/09 Cohort

“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!”

“Found youtesttube.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’)

Comments from 2009/10 Cohort

“It was very helpful when doing the practicals. I watched the videos first and then when i went to the lab it was much easier.”

“..was a great way of finding out information about the practicals and after viewing some of the videos I was able to carry out my practical more (confidently)”

Feedback from the 200/10 Cohort

- Students wanted to protect the **‘fun’ aspect** of the exercise since an assessed video would become more of an exercise about **‘getting it right’**.
- Only a few of the surveyed students listed **reflective skills** as an identified skill learnt.
- *First year students did therefore extend the practical experience.*

Other Uses of the YouTestTube site

- Since 2010/11 academic year, videos are now used as peer learning objects
- Year 1 Bioanalytical Chemistry module, embedding and sharing videos on the topic of proteomics as part of a context based learning exercise
- MSc Students embedded, shared and discussed videos on aspects of mass spectrometry / proteomics with colleagues on the module

Staff Reflections / The Way Ahead

- Overall a good experience, relatively easy to manage
- Process of getting video from camera slow and cumbersome
- Students could be given greater ownership of videos (editing / uploading etc.)
- The process is now fully embedded in the BMS105 module

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www.ulster.ac.uk/star



Scan for more about
YouTestTube

JISC Tech**Dis**