





How we became involved with using social media for student learning

- Retention within the College of Science and Engineering
- Peer Assisted Learning (PAL) for Level 1 Mathematics and Computing Science
- Success story for students attending
- Practical barriers for others
- Convinced of demand for peer interaction but impossible to get students together in the same place at same time?
- Physical PAL may be the ideal but would virtual PAL (VPAL) be better than nothing?

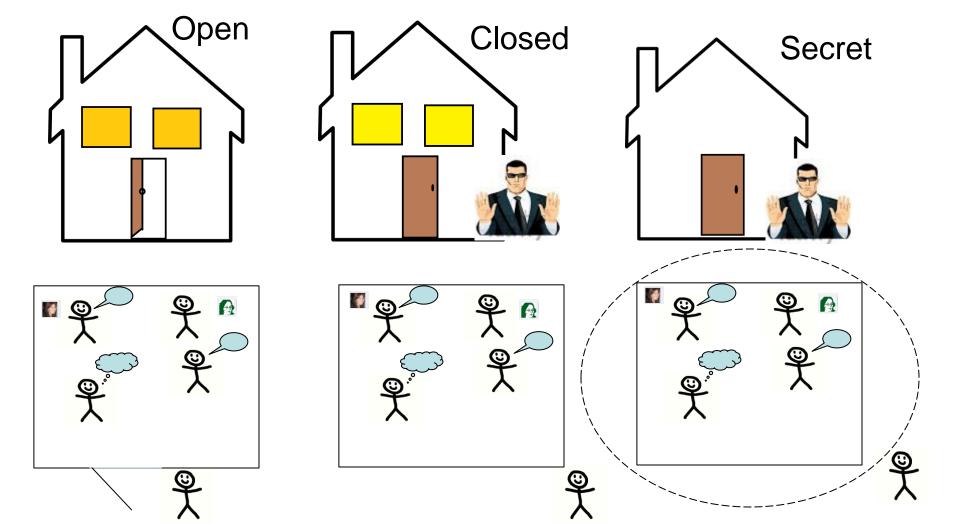


Virtual learning spaces

Facebook Page	Facebook Group	Moodle Forum
 Public – visible to all whether logged in or not Official profile/presence Admin can be shared with others (details not public) Fans "like" a page Some control of who can post "Broadcasts" information Easy to use on smart phone/tablet 	 Can be: Open Closed Private Community groups Admin can be shared with others (group members can see who admin are) Members join a group Discussion Easy to use on smart phone/tablet 	 Private – accessible only within institution Admin is staff member Automatically enrolled but students can opt-out from all except 'News' forum Only available after beginning of semester Clunky to use on a smart phone, OK on tablet Primarily used for University work



Facebook groups





Exceeded our expectations in many ways

Not only VPAL "better than nothing" but in many ways better than traditional PAL...

- Time buffer (space for abstract thinking, worked examples, English language)
- All conversations visible to all in group
- Self selecting conversations
- Level playing field (control online presence; introverted students)
- Urgency of misunderstandings (stepwise subjects)
- Clear articulation forced (vocabulary, precision in writing, practice in writing and asking questions)
- Holiday and re-sit periods



Example 1: Organising a physical meeting







Example 2: Messages of support



Oh my days. I just did horrendously in that practice skills test, :(

Like · Comment · Unfollow post · 22 September at 16:23 near Particl.





Example 3: Academic Chat

I'm a little (okay, a lot) rusty with trigonometric identities. I'm doing a practice skills test and it's hit me with this bad boy.

Let $f(u) = 2(u^2-u^4)$. Find $f(\sin\theta)$.

So far I've got 2(sin²0-sin⁴0) but I don't know where to go from there. A cheeky hint would be appreciated! Thanks.

Like · Comment · Unfollow post · 24 September at 16:06 near Bishopbriggs



Shazia Ahmed Ok, cheeky hint coming up! Take sin 9 out as a common factor

24 September at 16:09 - Like - \(\inf 2

There's a common factor in there 🕲

24 September at 16:09 via mobile : Like

Now I've got sin?8(1+cos28). Stuck again.
Is that even correct?

24 September at 16:13 : Like

l l

After some more substitution I got

1/ssin2(28)

which is one of the answers! Hope it's right, I really need to memorise the different ways to express cos20.

24 September at 16:36 : Like



Shazia Ahmed Looking good! I have some formula sheets in my office. Pop round sometime and collect one. They're really good.

24 September at 16:38 Like

There's a good maths formulae appendix in the back of my physics textbook which I've been using, but I'll definitely come and steal yours haha. Thanks. (2)

24 September at 16:39 · Like



Shazia Ahmed The one I have is more portable than the physics textbook.

24 September at 16:40 : Like - ≤ 2

Most things in life are more portable than that bloody textbook...

24 September at 16:41 * Unlike * \$47

You made a mistake... Check the operator inside the brackets!

24 September at 19:31 - Like

The exact result is sin^2(28)

24 September at 19:33 * Like

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Actually, the answer I got was correct. It
appears that you've made the mistake.;]
24 September at 19:34 · Like · 🖒 2
                  We've got 2(\sin^2(\theta) - \sin^4(\theta)). Factor out
sin^2(\theta) and we've got 2sin^2(\theta)(1-sin^2(\theta)) then we know that
1-\sin^2(\theta) = \cos^2(\theta) so, substituting we have=> 2(\sec^2(\theta))^*
(cos^2(8)) so, we conclude with sin^2(28).
24 September at 19:52 - Like
                        That just made my eyes water. I can't make
sense of it.
I got the same answer as you except with a half at the front and it was
correct. *Shrug*
24 September at 20:00 - Like
24 September at 20:04 - Like
               2(\sin x)^2(\cos x)^2 = (2\sin x\cos x)(\sin x\cos x) =
(\sin(2x))(\sin(2x)/2) = 1/2(\sin(2x))^2
24 September at 20:07 · Like · △1
               remember sin(2x) = 2sinxcosx
24 September at 20:07 : Like : 451
                        I think I know where you've gone wrong.
2sin28cos28 ≠ sin2(28).
24 September at 20:07 - Like - 431
                 Right! Thank you! (A)
24 September at 20:08 - Like
                       I did the following:
2\sin^2\theta\cos^2\theta = 2\sin\theta\cos\theta(\sin\theta\cos\theta)
= sin28(1/sin28)
=1/ssin2(28)
24 September at 20:12 ' Like
                  Yeah, I underestimated this guestion... And I did
WRONG! lol.
24 September at 20:15 - Like
                        Teamwork got us there in the end. yeah!
24 September at 20:16 : Like
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Example 4: Virtual Maths Support







Student feedback

"On the whole I feel the most useful thing about the Facebook page is that it makes it easier to talk to people who you don't really know, and who you would find it difficult asking the same questions of in person."

"Keep going with these Facebook groups and try as hard as possible to get EVERYONE in the group as early as possible in first year. In my experience as a student who travels in, it helps feel a part of the University. Without the Facebook groups I would feel a lot more isolated and probably at lot less engaged."

"I like the informal setting of it to be honest with you, it doesn't feel like a chore checking up on here rather than Moodle which I associate purely with University and working etc. never been on Moodle at the weekend."

"Moodle is like the school noticeboard, facebook is the bunch of students chatting in front of it."



Student Feedback

"There are people who will share there answers, methods for doing a problem. Its like being in a tutorial sometimes. Personally it gives me confidence because if someone posts a question that you were stuck on also...it makes you feel less stupid because you know that other people are also struggling with some concepts in the course, its not just you."

"They work. They are well set up, they look good. Already logged in."

"I feel that the facebook pages are well-managed/curated by the university staff - there to help when we need it yet able to stand back when we're having a mild moan and I'm glad that we have them."



Where we are now

- Rolled over last year's 'subject' groups. e.g. 'SLS Level 1 Maths 2012-13' has become 'SLS Level 2 Maths 2013-14'
- Numbers of members in each group are in the hundreds, e.g., the new 'SLS Level
 2 Mathematics' has 164 members
- Experience has been extremely positive
- Interaction has been both Social and Academic



New Developments

Student Learning Service 'Science and Engineering 2013-14 Entrants' group Invited students by email (via Admissions)

College wide-group signposts subject-specific groups for every 'Sci/Eng' discipline

Over 500 students in 'Science and Engineering group'.

Very hectic. Students have a lot of questions!

'Subject choices?' 'When do we get book lists?' 'Who is staying in which Halls?'

Pre-Arrival Positives:

Friendships forming

All Science students in group knows about the 3 subject issue

All students studying Maths know about the Skills Test



Thank you

SLS Facebook page

https://www.facebook.com/StudentLearningService

SLS Twitter

https://twitter.com/GlasgowUniSLS

Managing Virtual Learning Spaces

https://www.facebook.com/groups/12544718765832/