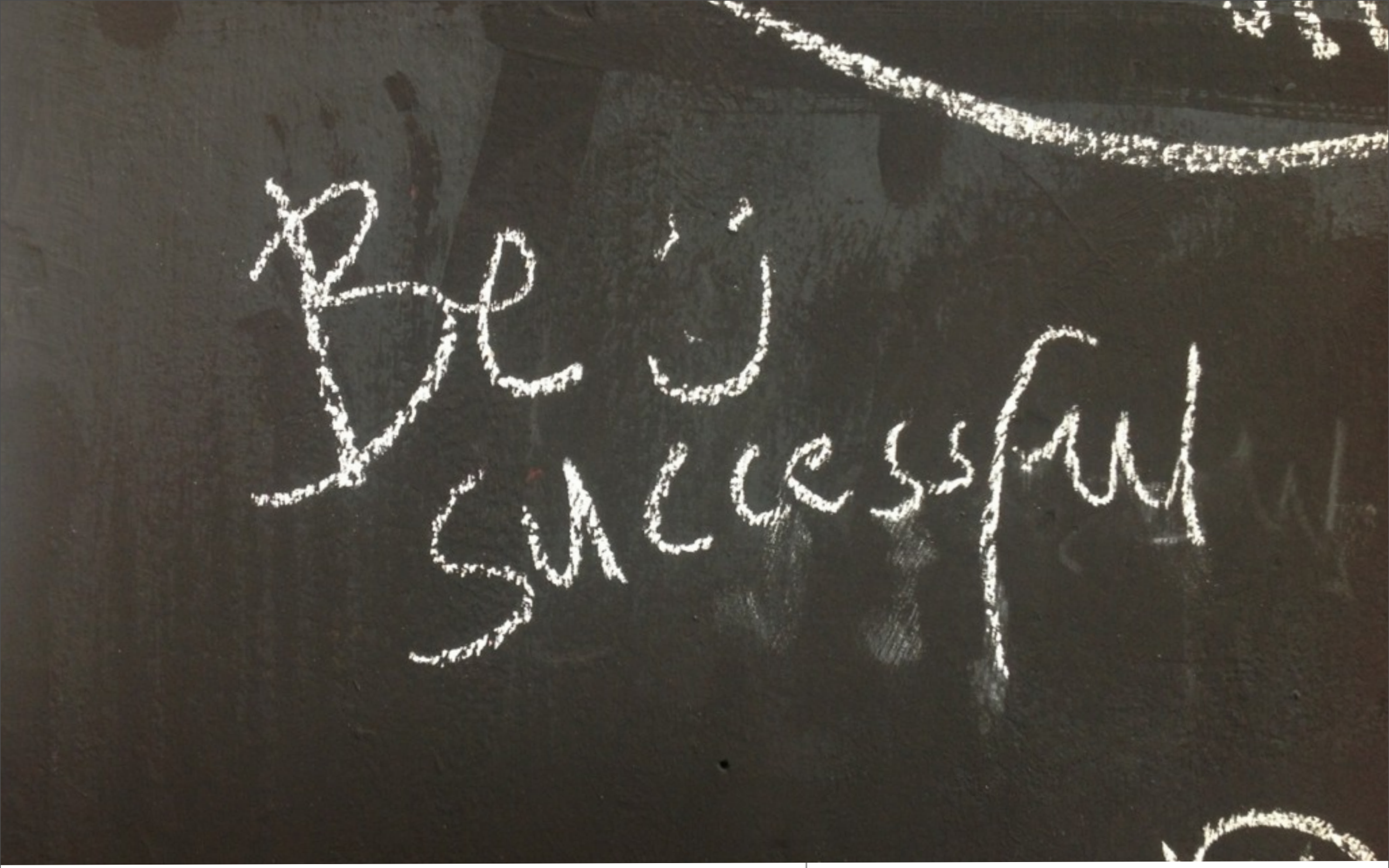
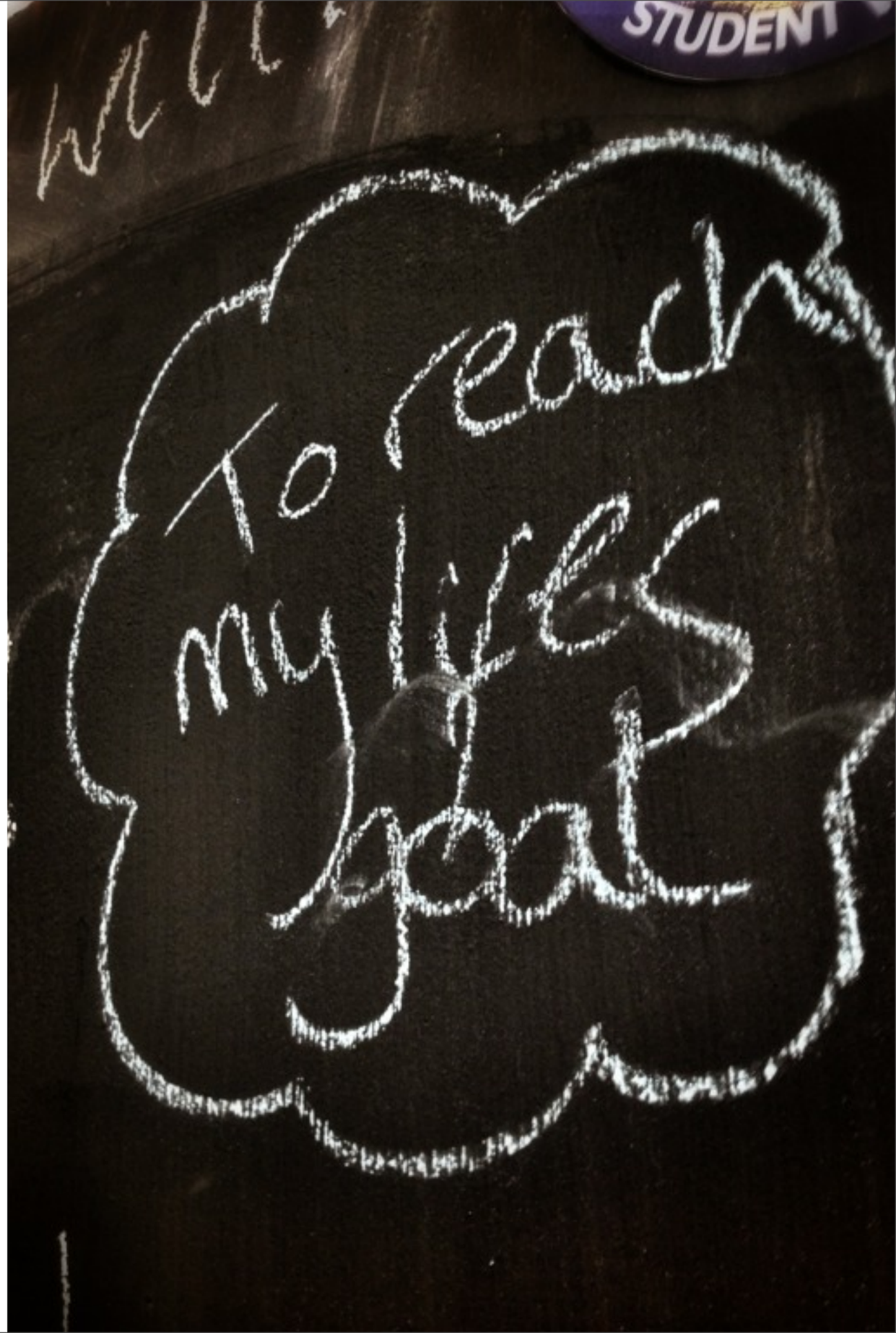


Transforming learning

Mark Anderson @ICTEvangelist

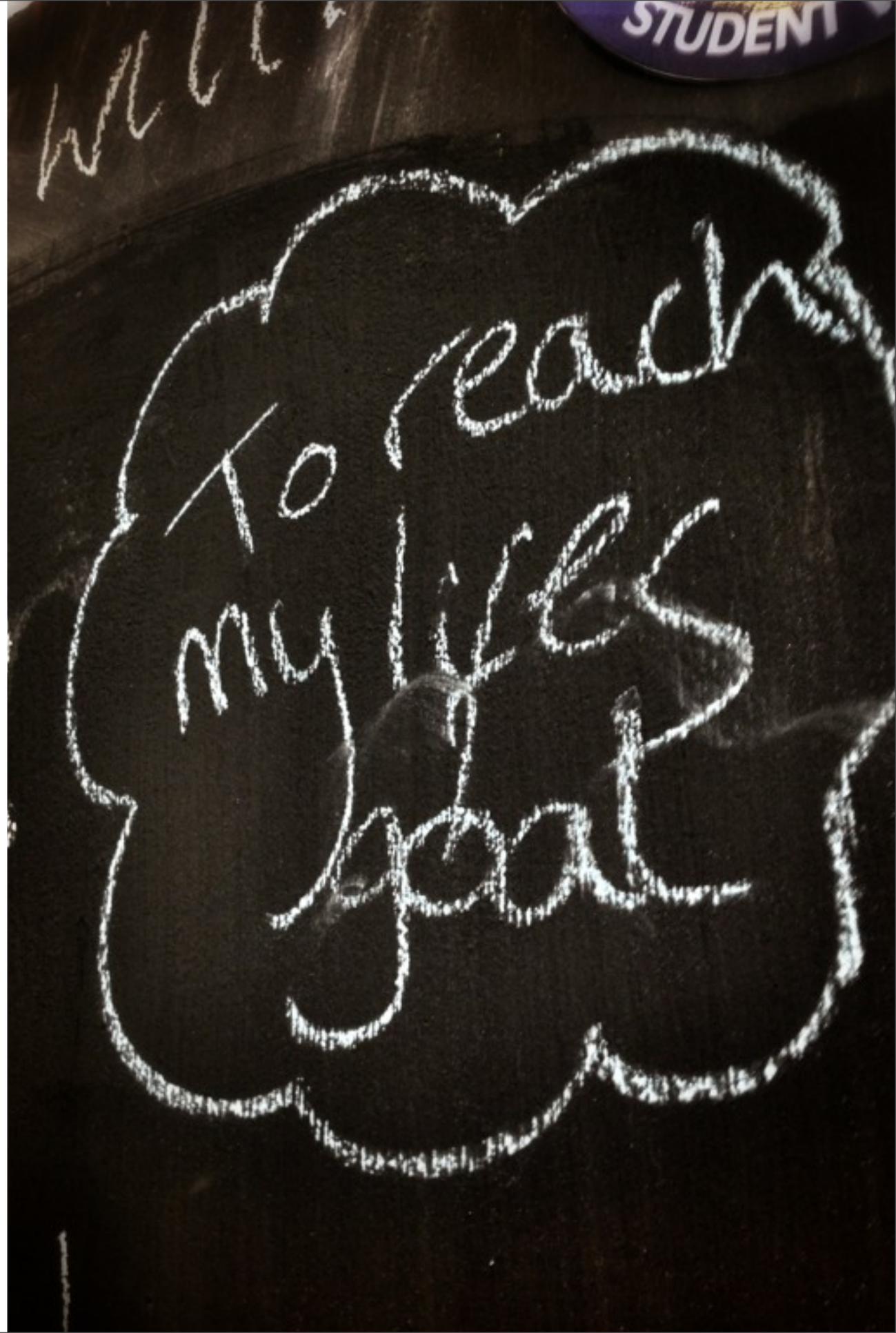
Session outcomes

- Ideas for activities in classroom
- Confidence to take risks with technology in the classroom
- Knowledge of frameworks to support planning



Scenario

- New technology
- iPads throughout school
- Confidence of staff
- Fires
- Frameworks



Barrier

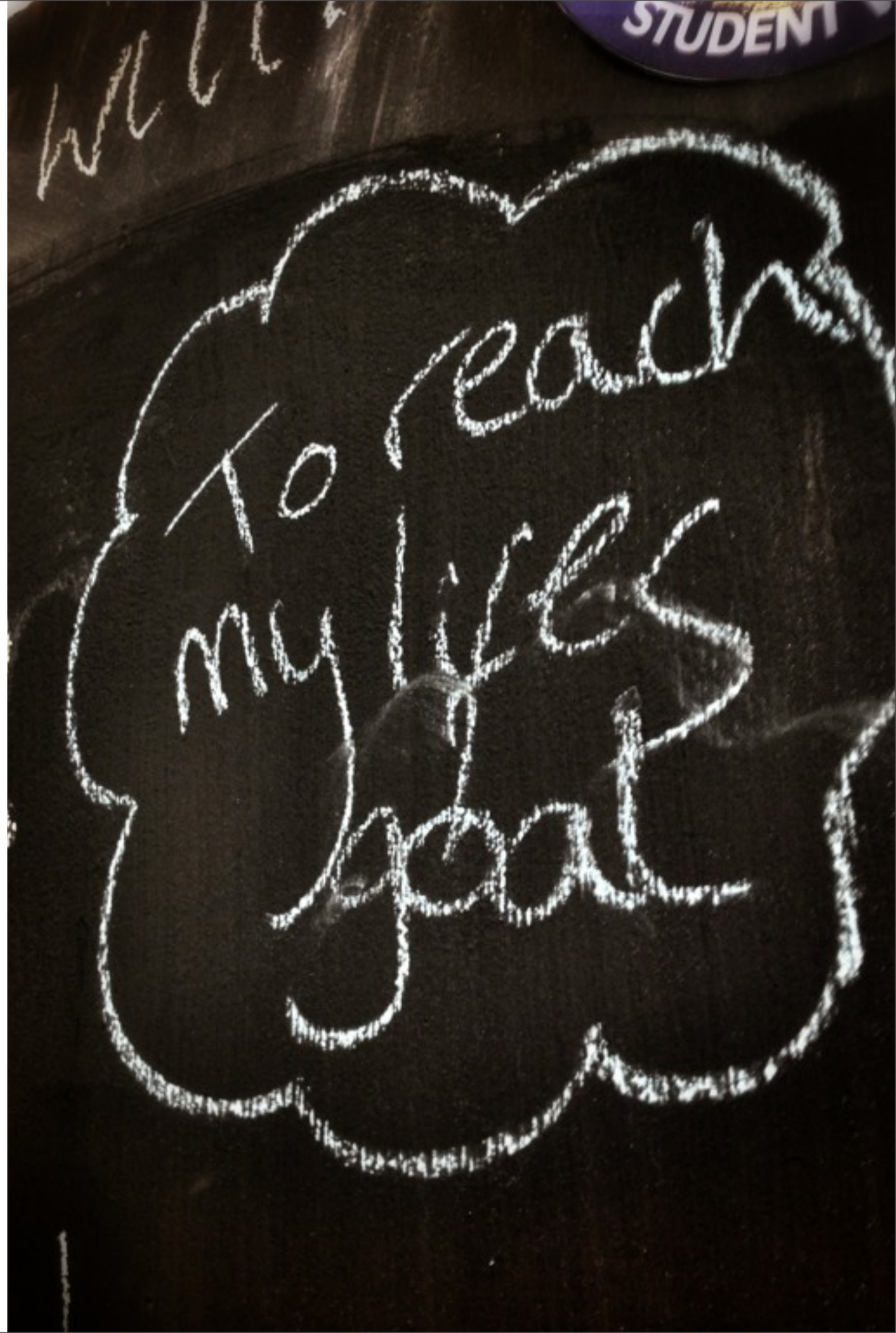
- Mandinach & Cline:

  1. Survival

  2. Mastery

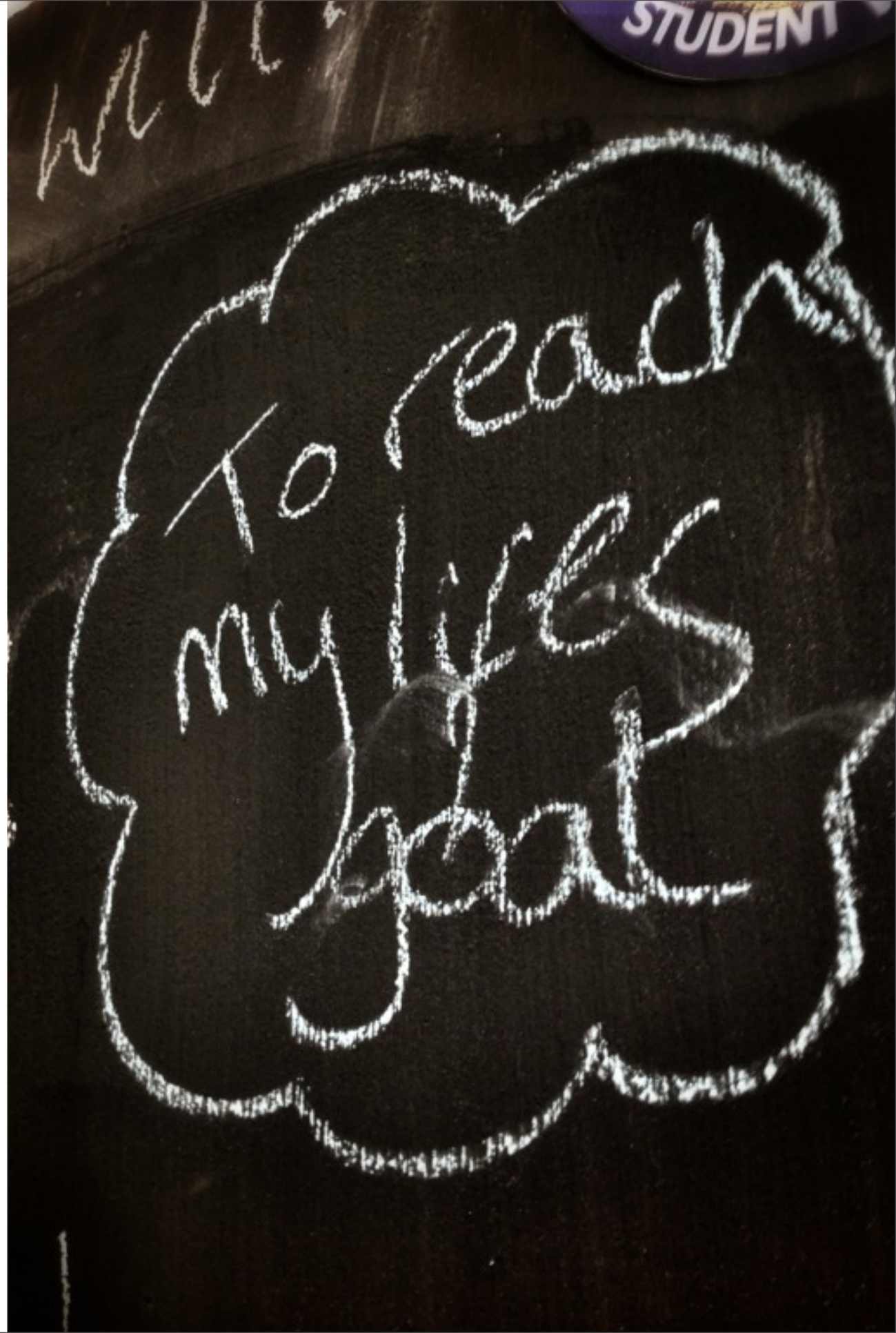
  3. Impact

  4. Innovation



Common sense

- Teachers are the experts in pedagogy…
- Students may be the experts in mobile technology….
- We are all on the journey of mobile technology in the classroom…



Solution

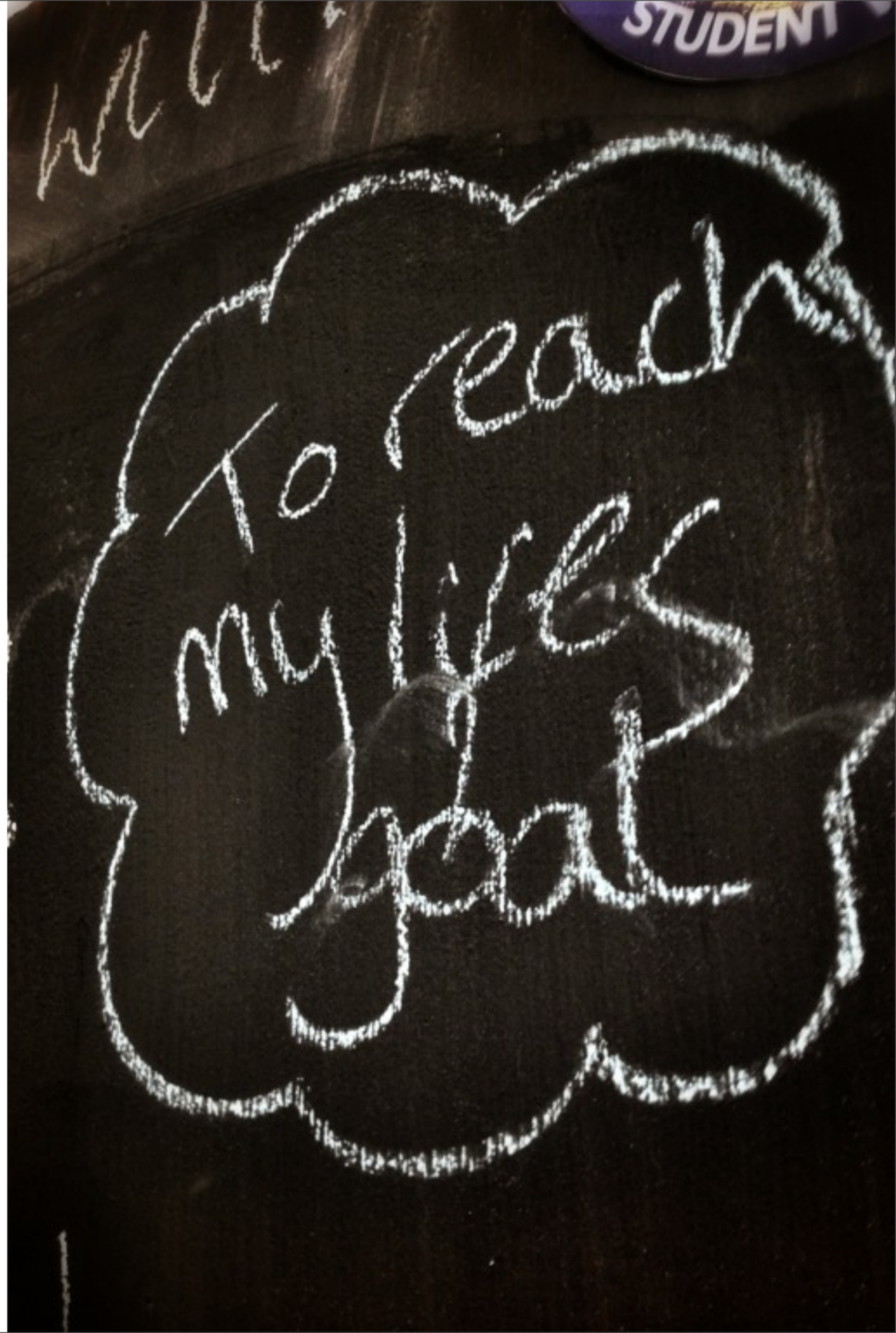
- Dr Ruben Puentedura

    1. Substitution

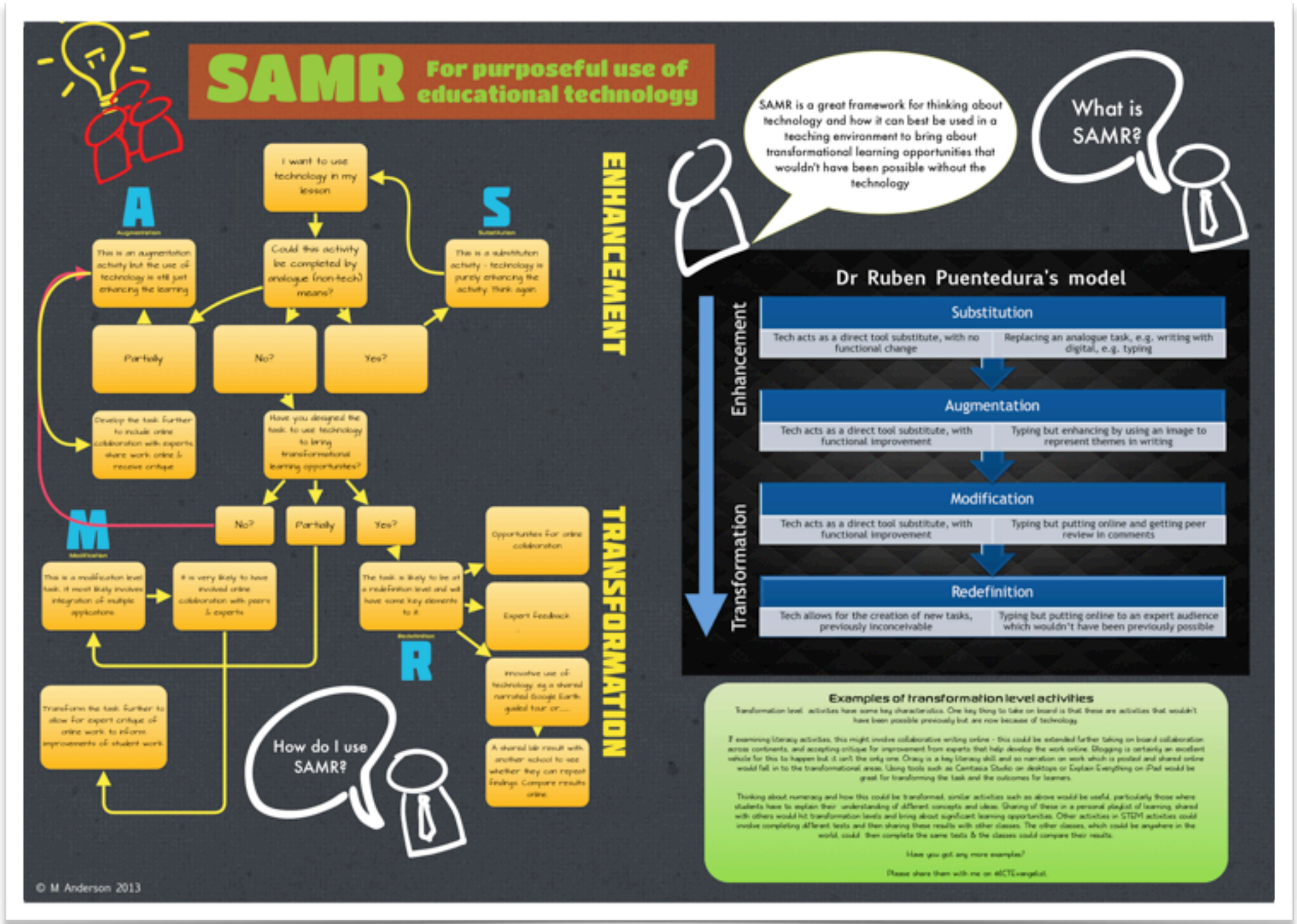
    2. Augmentation

    3. Modification

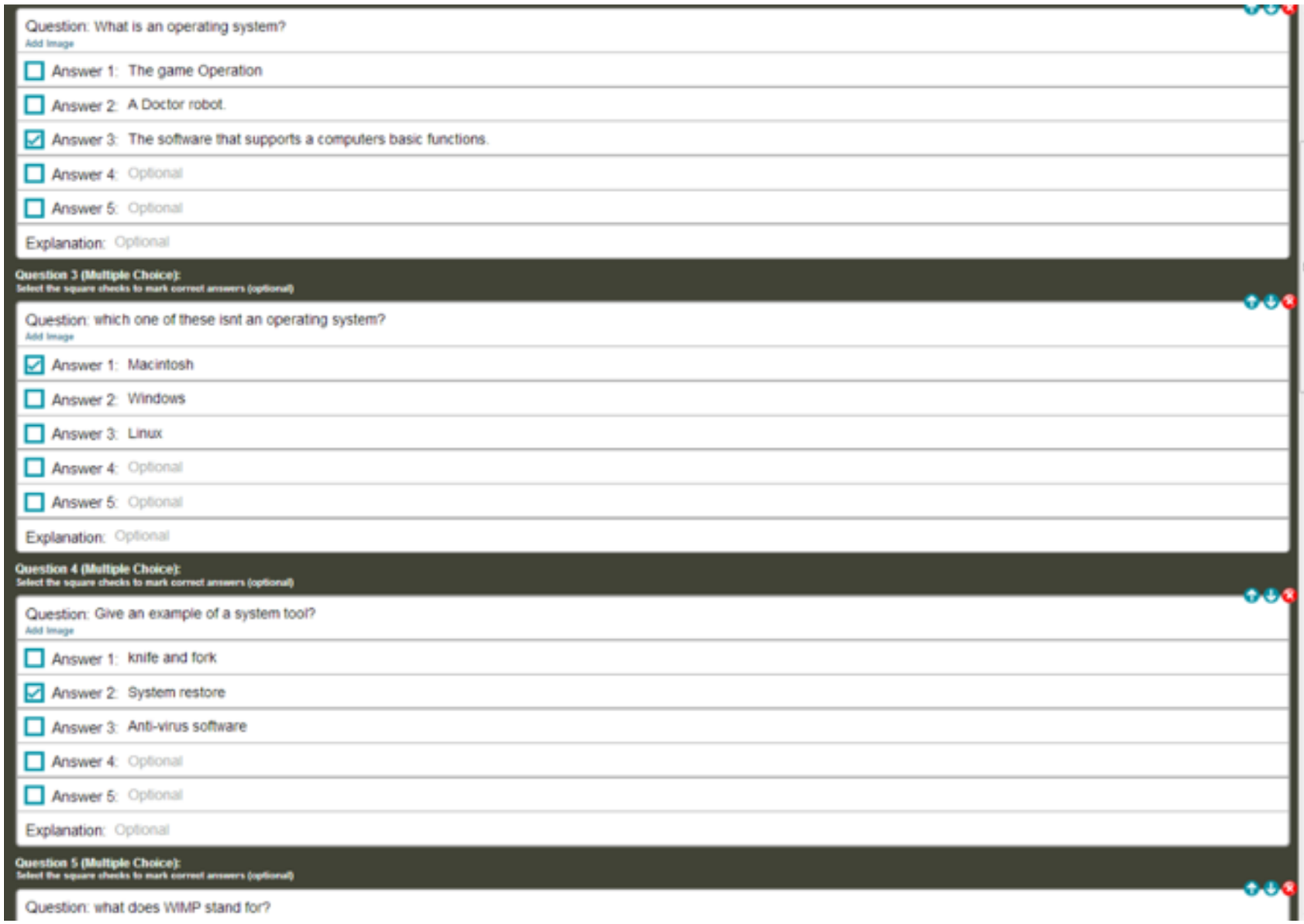
    4. Redefinition



SAMR


SAMR For purposeful use of educational technology
A
Augmentation
This is an augmentation activity but the use of technology is still just enhancing the learning
I want to use technology in my lesson
Could this activity be completed by analogue (non-tech) means?
S
Substitution
This is a substitution activity - technology is purely enhancing the activity. Think again.
Partially
No?
Yes?
ENHANCEMENT
Develop the task further to include online collaboration with experts, share work online & receive critique
Have you designed the task to use technology to bring transformational learning opportunities?
No?
Partially
Yes?
M
Modification
This is a modification level task. It most likely involves integration of multiple applications.
It is very likely to have involved online collaboration with peers & experts
The task is likely to be at a redefinition level and will have some key elements to it.
Redefinition
R
Opportunities for online collaboration
Expert feedback
Innovative use of technology, eg a shared narrated Google Earth guided tour or.....
A shared lab result with another school to see whether they can repeat findings. Compare results online.
TRANSFORMATION
Transform the task further to allow for expert critique of online work to inform improvements of student work
How do I use SAMR?
© M Anderson 2013
SAMR is a great framework for thinking about technology and how it can best be used in a teaching environment to bring about transformational learning opportunities that wouldn't have been possible without the technology
What is SAMR?
Dr Ruben Puentedura's model
Enhancement
Substitution
Tech acts as a direct tool substitute, with no functional change
Replacing an analogue task, e.g. writing with digital, e.g. typing
Augmentation
Tech acts as a direct tool substitute, with functional improvement
Typing but enhancing by using an image to represent themes in writing
Transformation
Modification
Tech acts as a direct tool substitute, with functional improvement
Typing but putting online and getting peer review in comments
Redefinition
Tech allows for the creation of new tasks, previously inconceivable
Typing but putting online to an expert audience which wouldn't have been previously possible
Examples of transformation level activities
Transformation level activities have some key characteristics. One key thing to take on board is that these are activities that wouldn't have been possible previously but are now because of technology.
If examining literacy activities, this might involve collaborative writing online - this could be extended further taking on board collaboration across continents, and accepting critique for improvement from experts that help develop the work online. Blogging is certainly an excellent vehicle for this to happen but it isn't the only one. Oracy is a key literacy skill and so narration on work which is posted and shared online would fall in to the transformational areas. Using tools such as Camtasia Studio on desktops or Explain Everything on iPad would be great for transforming the task and the outcomes for learners.
Thinking about numeracy and how this could be transformed, similar activities such as above would be useful, particularly those where students have to explain their understanding of different concepts and ideas. Sharing of these on a personal playlist of learning, shared with others would hit transformation levels and bring about significant learning opportunities. Other activities in STEM activities could involve completing different tests and then sharing these results with other classes. The other classes, which could be anywhere in the world, could then complete the same tests & the classes could compare their results.
Have you got any more examples?
Please share them with me on @CTEvangelist

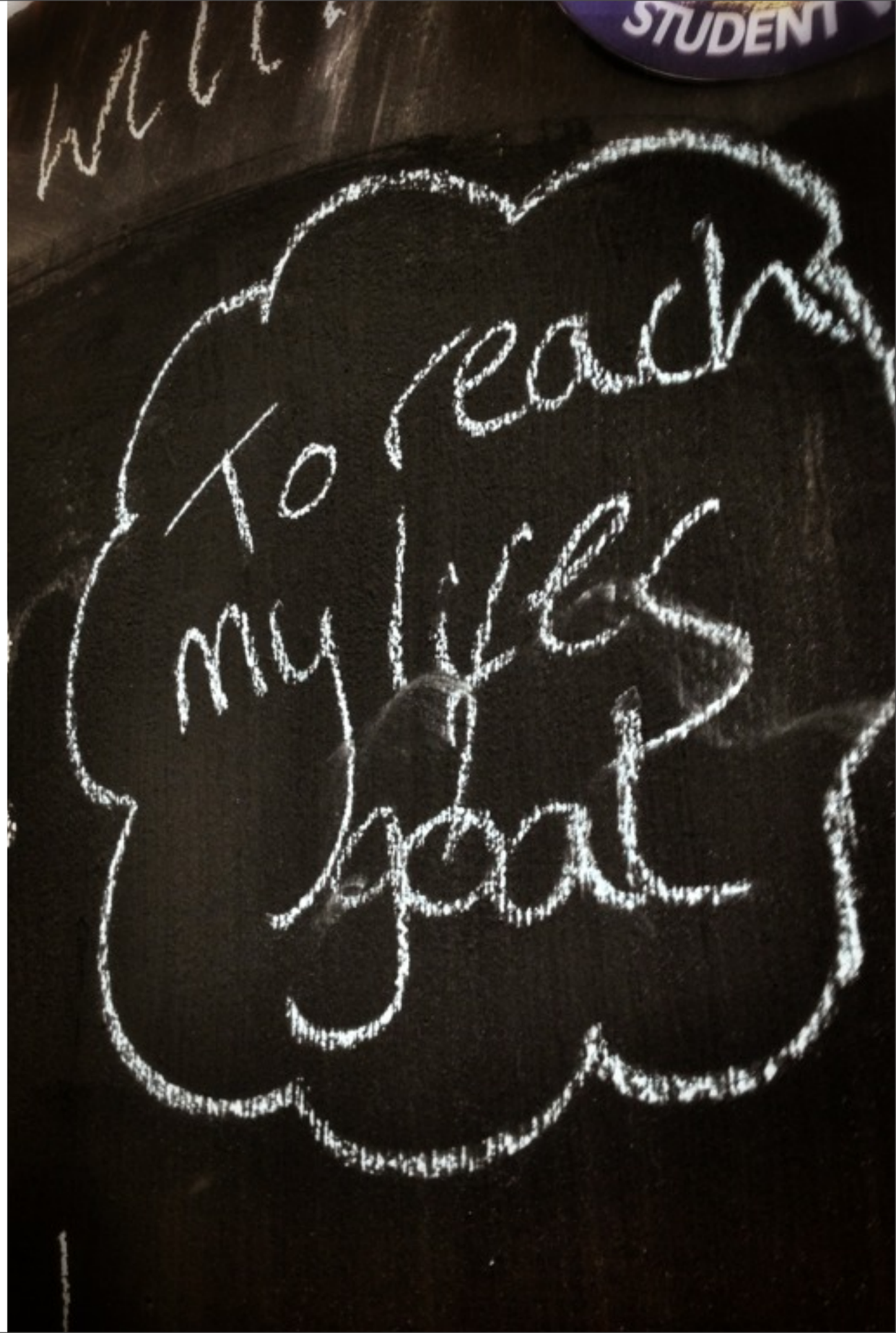
Teacher or Student?



Socrative

Teacher or Student?

Wix

Session outcomes

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