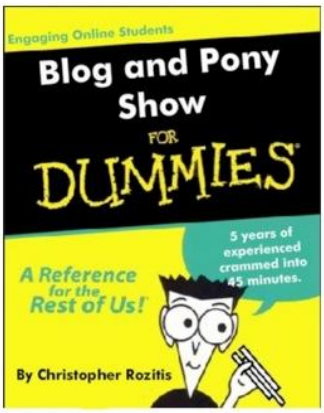
Roundtable Session Notes

Session Title: Engagement: Students Creating Learning Objects

Presenter: Christopher Rozitis (crozitis(at)gmail(dot)com)



An instructional model has been devised so that your students can create screen captures videos that are good enough to be used as learning objects in your courses. This model motivates and engages online students through good pedagogical practice, individual learning support, peer evaluation and Web 2.0 tools for community based learning. The students are given or chose a question. They go through a number of simple procedures in which there is both learner and instructor interaction to a final video. All the software used is free. You could have 100s of learning objects within a year.

Student comments:

- I also found the online classroom powerpoint presentations really cool and interesting! (Tina)
- I found the screen capture project the most interesting (Terrin)
- The fact that I can do assignments in more interesting ways rather than just on Microsoft word (Zenon)
- I like the interaction with teacher that also boost up my performance in science subject (Alan)
- The presentation part does have a lot of fun!! (Erika)
- I found making the powerpoint very interesting (Alli)

Software:

- Presentation tools: keynote, powerpoint or openoffice presentation.
- Screen recording software: screenr.com

- Other ideas
    - iPad...Explain  Everything(http://itunes.apple.com/ca/app/explain-everything/id431493086?mt=8)

Each student gets a different Q.

- When: after the midterm

Suggestions:

- Beforehand include
    - a small assignment that uses a presentation tool
    - a small assignment that introduces students to screenr.com
- Copyright issues
- Make sure the image matches the Q.
    - Cars vs trucks
    - Sheep vs mountain goats
    - Final answer of the height of the bridge is 705 m...the student had an image of London Bridge (only 47 m)
- Some students may not like their voice (actors) on the movie...can use text to voice option on Mac

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Math Qs

- Use Equation Editor and if you need colour use http://www.codecogs.com/latex/eqneditor.php

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Examples

ONE slide presentation:

A car starts at rest and is moving at a velocity of 25 m
18 seconds, how far will it have traveled?

$v_o = 0$ m/s
$v_f = 25$ m/s
$t = 18$ s
$d = ?$

$d = \frac{1}{2}(v_o + v_f)\, t$
$d = \frac{1}{2}(0 + 25)\, 18$
$d = 225$ m

All problems offer us c
them based on the infor
give. Each clue is high
different colour to show
information it tells us.
information is recorded
colour. An equation is
fits the given informati
purple. Values are sub
the equation is solved.

Teacher's Example

A truck starts at rest and is moving at a velocity of 25 m/s after 18 seconds, how far will it have traveled?

Given:
$v_o = 0$ m/s
$v_f = 25$ m/s
$t = 18$ s
$d = ?$

t = 0 s
v = 0 m/s

t = 18 s
v = 25 m/s
d = ?

Student's Example

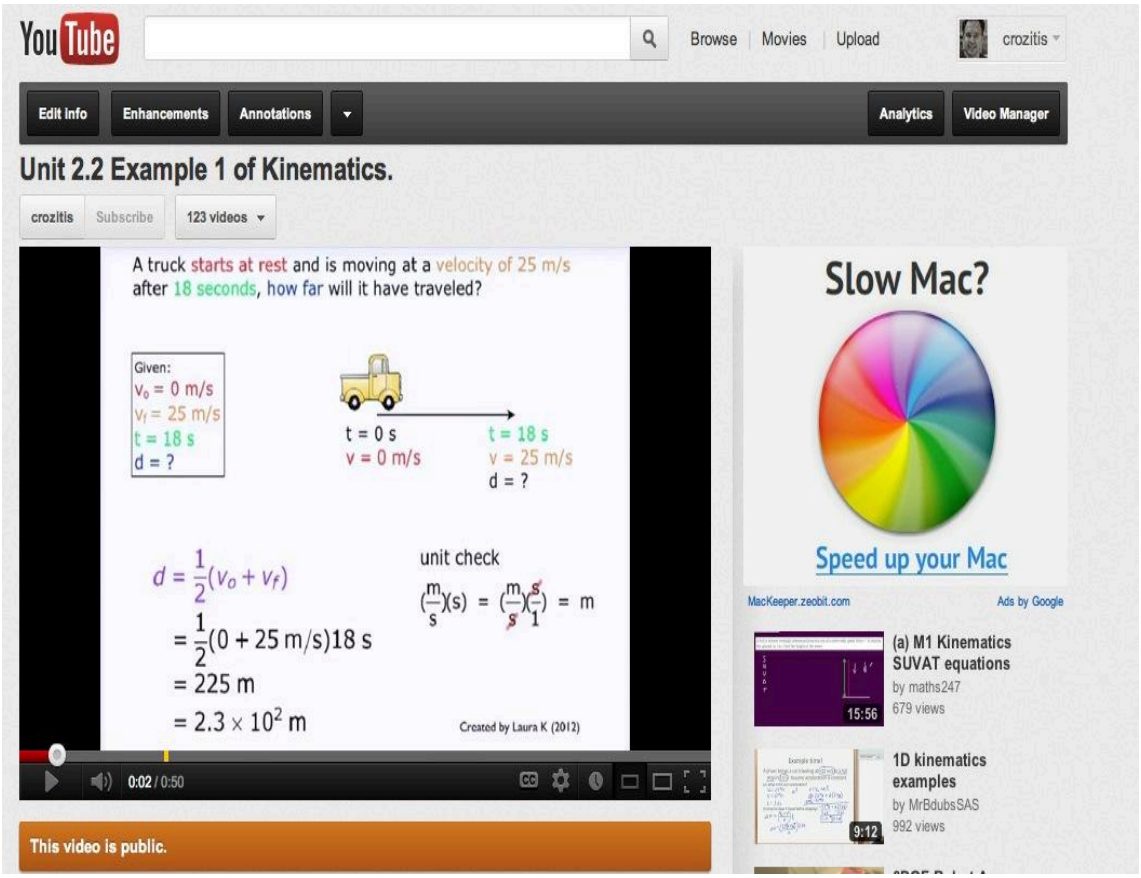
$$d = \frac{1}{2}(v_o + v_f)$$
$$= \frac{1}{2}(0 + 25\ \text{m/s})18\ \text{s}$$
$$= 225\ \text{m}$$
$$= 2.3 \times 10^2\ \text{m}$$

unit check

$$(\tfrac{m}{s})(s) = (\tfrac{m}{s})(\tfrac{s}{1}) = m$$

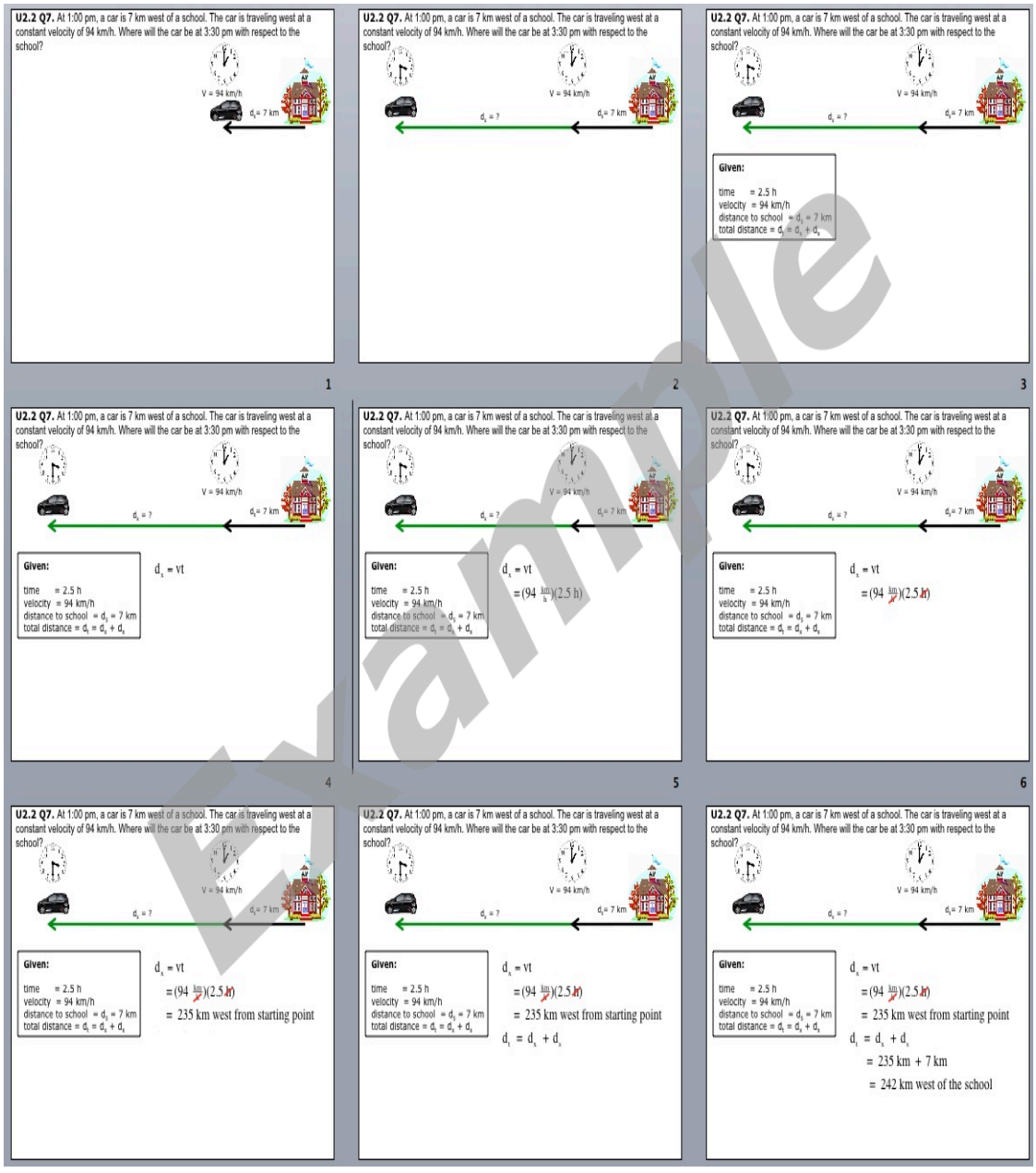
Created by Laura K (2012)

[Click here for student video of the above Q](#)

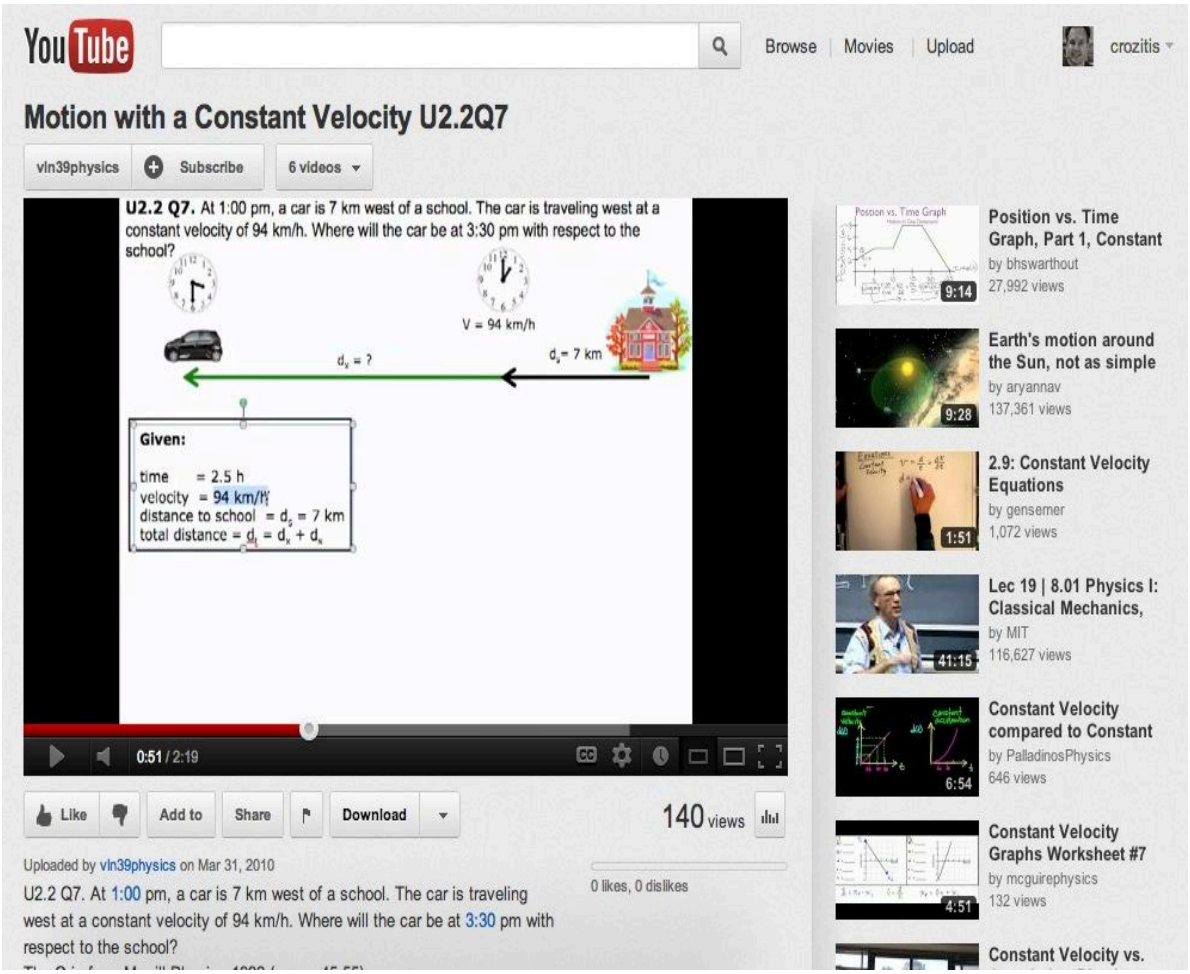


MULTIPLE slide presentations

- create the last slide 1st
- then work backwards...duplicating slides and deleting or putting boxes on top of what you do not wish the viewer to see...like using a paper on overhead machine



[Click here for video of the above Q]



Sample videos

- YouTube http://www.youtube.com/user/crozitis
- iTunesU https://itunesu.itunes.apple.com/audit/COKY2LLLN5

- the student videos can be found in the iBooks...only works on iPads

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Steps

1. Teacher gives the Q
2. Student makes the presentation
3. Student uploads presentation to Discussion area for feedback
4. Student to give feedback to at least two other students...in Discussion area...one before and one after their own post
5. Teacher gives feedback...in Grades page...so other students do not see

6. Student makes changes to presentation
7. Student presents on Blackboard Collaborate (or Skype, Google Hangout, in person, ???)
8. Teacher gives feedback to presentation
9. Student makes screen capture video

Science Instructions

Create a post to the Discussion below when you have created your PowerPoint, Keynote (or openoffice.org presentation). The subject line should read the original unit # and filename of the image. For example slide 2 is "*u2.2kinematic1.gif*"

Go to *Redo Image, PowerPoint and Video Instructions* to get the guidelines.

1. Attach your one slide PowerPoint for others to give you feedback.
2. Reply to the **post before and after yours** to help the other students improve their PowerPoints. Use the following ideas for feedback:

    - First name and year in the bottom right "Created by Laura K (2012)"
    - White background
    - Font: verdana
    - Font size: the Q should be 18 and everything else should be 16ish
    - If needed...make sure to use subscripts and superscripts
    - Use Equation Editor and if colour is needed then use the online equation editor http://www.codecogs.com/latex/eqneditor.php
    - Put a space between the units and the #s...for example 60m/s should be 60 m/s
    - Make sure the 7 steps are present:

        1. Given box
        2. Diagram
        3. Main Equation
        4. Isolate the variable
        5. Substitute the #s and units
        6. Answer in correct sig figs
        7. Double check your units

    - Spelling correct
2. Once you have received feedback, adjust your PowerPoint and make your screen capture video.
3. See the *Course Tour* video on how to make your screen capture video.

Notes to be used by Teacher

- Please edit this post to add your PowerPoint. Also, reply to two other learners...one before and one after this post. You have one week to post your PowerPoint. **You have until Jan 27th** to upload your powerpoint. Solution to the Q may be found at Content >

Resources. *This one is put into the Discussion post.*

- Your PowerPoint Q is now ready. Solution to the Q may be found at Content > Resources (or Unit Review Answers). Go to the Discussion area to find your Q. You have one week to upload it to the Discussion area. Once you have completed the Powerpoint then edit the original discussion post and upload it there. Make sure to give feedback to the learner the posted before and after you. *emailed to student...when their Q is ready*

- Please make the above changes prior to your Elluminate (now called Blackboard Collaborate) presentation and this grade will increase. Check the Course Home page for presentation dates and times. Sign up in the Discussion area for a presentation time. Also, make sure to give feedback to the learner before and after your post. *This part of the feedback given to students.*

- **Presentation** *emailed to student...when they have selected a date to present*
    - I see that you are presenting very soon...make sure to have the following completed prior to presenting:
        - **i.** If you have not done so...upload your powerpoint to the Discussion area and give feedback to the person before and after you. Make sure to give positive feedback as well as a way for them to improve their PowerPoint.
        - **ii.** After you have received feedback from the instructor and other learners, make sure to make necessary changes to the PowerPoint.
        - **iii.** Check to make sure your microphone works with Elluminate (now called Blackboard Collaborate)
            - the link is on the Course Home page...go to the Elluminate room and select Tools>Audio>Audio Setup Wizard
        - **iv.** Email me your ppt prior to the presentation. You might have to use your non-vln email, especially if it is a big file size (> 5MB)...if this is the case then email it to cozitis(at)gmail(dot)com

What other learning objects can students make?

- Practice Qs...multiple choice