

Using Internet Video To Encourage Student Engagement in Large Lecture Classes

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LITT Workshop Presentation

Lycoming College

September 16, 2014

Previous Work

Students in CHEM 110– General Chemistry asked for more in-class practice with difficult concepts/problems

PLAN– Move simpler examples to a series of You Tube videos to make room for more involved problem solving

First Attempt at Video

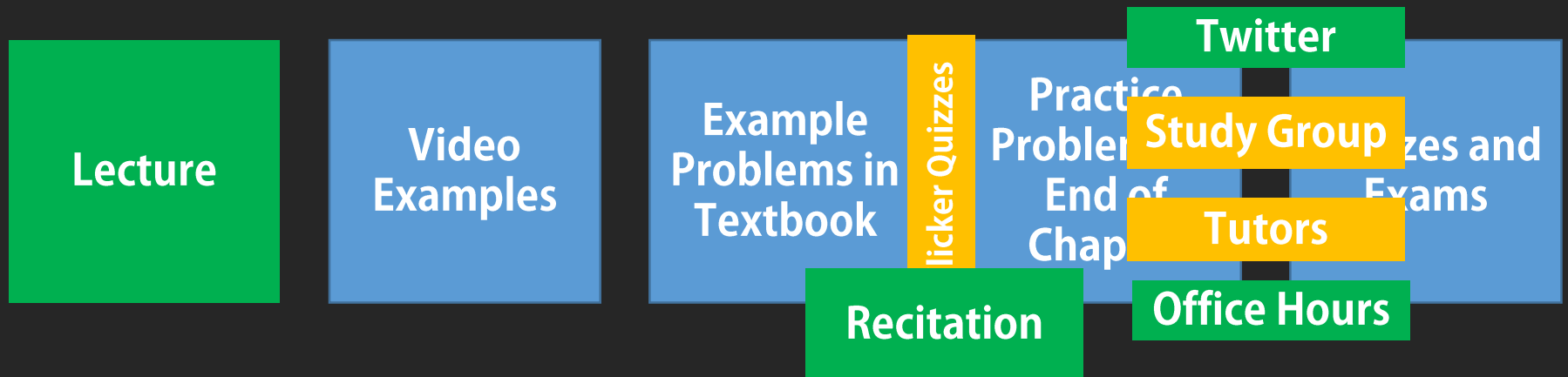
Suppose that 0.275 g of K_2CrO_4 is dissolved in 500.0 mL of water. What is the molarity of K_2CrO_4 in this solution?

Problem

Only a fraction of students watched the videos

Students did not participate in class
(~85 students in Heim G09)

New Approach



I also wanted to improve the video and audio quality

Nuts and Bolts

Editing of Video Performed in Adobe Premiere
Resulting Video Uploaded to YouTube

Secondary
Camera
(Canon 60D)

Main Camera
(Canon 6D)

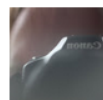
Audio
Recording
(Zoom H1)



Improved Attempt at Video

Suppose that 0.275 g of K_2CrO_4 is dissolved in 500.0 mL of water. What is the molarity of K_2CrO_4 in this solution?

Is It Working?



Jeremy Ramsey

Created: Feb 13, 2009 • Videos: 80 • Lifetime views: 2,233

CHANNEL

Last 28 days (Aug 17, 2014 – Sep 13, 2014)

Performance



VIDEOS
180 ▲



ESTIMATED MINUTES WATCHED
720 ▲

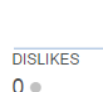


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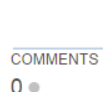
Engagement



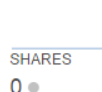
LIKES
2 ▲



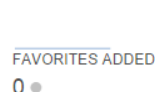
DISLIKES
0 ●



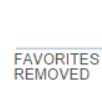
COMMENTS
0 ●



SHARES
0 ●



FAVORITES ADDED
0 ●



FAVORITES REMOVED
0 ●

Top 10 Videos

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Video	Views	Estimated minutes watched	Likes
Unit Conversions between the English and M...	58 (32%)	197 (27%)	1
Unit Conversions with Square and Cubic Exp...	40 (22%)	225 (31%)	1
Unit Conversions Involving Density	31 (17%)	50 (7.0%)	0
Significant Figures	19 (11%)	109 (15%)	0
Conversions Involving Density	17 (9.4%)	111 (15%)	0
Temperature Conversions	11 (6.1%)	29 (4.0%)	0
Converting between Atoms, Grams, and Moles	3 (1.7%)	1 (0.1%)	0
Chemical Equation Balancing-- Part 1	1 (0.6%)	0 (0.0%)	0

Tuesday 8:48pm

Kids in Bio lab watching your videos right now. Theyre talking about it like it's the best thing ever - because it is! So glad you're still doing that

That literally saved my life in Chemistry, for semesters to come!