

Go4St8 Physics

Jan. 11, 2014

Technology Integration

Overview of the Day

Schools have been adding technology to the classroom currently and we need to devise ways to use them in physics. This month we will explore some of the options that could be used and participants can share their experiences. From digital lab report to video problem solving to electronic formative assessments, come find out how to integrate technology into physics.

Agenda

9:00 - Opening remarks and announcements by Steve

9:15 - Topic 1 - Problems

- Mike - <http://www.physicsclassroom.com/testbank/contents.cfm>
- Paul - <https://quest.cns.utexas.edu/>
- Others - [Mastering Physics](#) [WebAssign](#)

Topic 2 - Formative Assessments

- Paul - Google Forms
 - [A Quick Video Tutorial](#)
 - [Example Form Teacher Side](#)
 - [Auto Correcting with Flubaroo](#)
- Mike - Moodle Quizzes
- Others - [Form Emailer](#) - script for Google Forms
- [Schoolology](#)
- [Examview](#)

Topic 3 - Lab Reports

- Mike -turnitin.com
- Paul - [Student Example](#) [Screencasting](#)
- Others - Show Me Educreation Explain Everything Screenchomp iAnnotate
- Videoant

Topic 4 - Professional Development

- [Global Physics Department](#) Meeting in real time online every Wed. at 8:30 awesome time zone. Moderator is Andy "Superfly" Rundquist, Hamline.
- [Twitter](#) Professional vs. Personal, Follow People vs. Follow Lists
- [Compadre](#)
- [PhET](#)
- Listservs - [AAPT](#) [NSTA](#)
- Blogs: <http://physixcoolisms.blogspot.com/>
<http://www.estimation180.com/>
<http://www.wired.com/wiredscience/dotphysics/>
<http://fnoschese.wordpress.com/>
<http://www.youtube.com/minutephysics>
<http://shawncornally.com/wordpress/>
<http://www.youtube.com/user/destinws2>

<http://www.sixtysymbols.com/>
<http://www.youtube.com/user/scishow>
<http://www.youtube.com/user/1veritasium>
<http://www.youtube.com/user/crashcourse>
<http://kellyoshea.wordpress.com/author/kellyoshea/>

10:00 Topic 5 - Video Analysis

- Logger Pro
-Video Clip of two pop cans “separated” by physics detonation device for momentum analysis
[pop can video for download](#) dew can 13.3 grams, diet coke can 26.9 grams fps 210 analysis
dots at centers of cans
[sample analysis](#)

[Video Tutorial](#) [Analysis in Logger Pro](#)

- [Tracker](#) [The How to Guide](#)

11:00 Direct-Measurement Video Problems with
Peter Bohacek (@bohacekp) and Rebekah Johnson (Henry Sibley High School)

Google Presentation: <http://goo.gl/PBsS8D>
[Direct Measurement Video Project Website](#)
[Direct Measurement Student Library](#) (or <http://goo.gl/8L7M4m>)

12:00 - Meeting Adjourned