

YouTube and Multimedia = Engagement in Science Class

Google videos



YouTube
Broadcast Yourself™



presented by
Dave Shellhaas
Darke County ESc

Why Multimedia?

- This is where the students live!!
- Students' lives are filled with fast-paced, media of all kinds.
- Computers, ipods, mp3 players and handhelds of all kinds are what students use to experience the world.

In the classroom?

- When we do not incorporate important pieces to our students lives in the classroom, they feel a disconnect between school and their real world.
- We have to engage students on their terms if we want them to engage in the content we are teaching!

In the classroom?

- Many schools and classrooms are using 18th century tools and resources like textbooks and chalkboards to teach students.
- We wonder why students are not motivated about school and learning.
- It is time to teach our 21st century students using 21st century tools and resources.

How can you do it?

- The first step is to use resources that students are familiar with, like web-based, multimedia resources.
- Most are free and relatively easy to access.
- Let's explore a few...



YouTube



- YouTube is probably the most extensive collection of educational, video resources out there today, AND IT IS FREE!!
- Students are already utilizing YouTube for many reasons.
- We **MUST** find ways to incorporate YouTube in our everyday instruction.



YouTube



- Unfortunately, most schools block YouTube.
- There is questionable content on the site but we must teach students how to use the Internet responsibly and effectively when they are not in our classrooms.
- So how can you use this type of site for your classroom?



YouTube



- If you are fortunate and your school does not block YouTube, use it daily in the classroom to demonstrate or introduce topics or concepts.
- If it is blocked at school, use it as an “out of class” resource for students to explore and enrich their understanding of the content.
- This can be done by giving students links to educational sites that have organized the videos and embedded them on that site.



YouTube



- Here are a few you can use:
- <http://www.darke.k12.oh.us/curriculum/sci/Sciencemultimedia/ScienceMultimediaResources>
- <http://www.neok12.com/>
- <http://www.khanacademy.org/>
- <http://video.google.com/>

Other Option

- If your school blocks YouTube and you would like to use clips in class, you can download the clips and save them on your computer or a DVD.
- One of the easiest programs is a FREE plugin for Firefox called "DownloadHelper"
- Here is how it works...

Other Option

- Download the free plug for Firefox from <http://www.downloadhelper.net/>
- You get an icon in the toolbar and when you click on it, it allows you to download any video that plays on a web page.



Other Option

- The plug-in downloads the video as a .flv or flash file to your computer.
- This file can then be converted to a file format that will play on your computer.
- You can find inexpensive converter programs on line.
- This allows you to keep the video file on your computer and use it at your convenience.



YouTube



- Another way to utilize YouTube is to get students engaged in creating content that can be posted on YouTube.
- By getting students to create video content that corresponds to the content you are teaching, you can accurately assess their understanding of the content.
- There are many good examples on YouTube of these types of projects.
- <http://www.darke.k12.oh.us/curriculum/Sci/ScienceMultimedia/CellsResources>

Other Video Sites



- <http://www.teachertube.com/>
- <http://www.brainpop.com/>
- <http://www.ndep.us/LabTV.aspx>
- <http://www.sciencetheater.net/>
- <http://www.wviz.org/psi>

Multimedia Sites

teachers'domain



ChemEd DL
Chemical Education Digital Library

KS2 Bitesize Edheads
Activate Your Mind!

- <http://www.teachersdomain.org/>
- <http://www.bbc.co.uk/schools/ks2bitesize/science/>
- <http://www.hippocampus.org/>
- <http://chemeddl.org/index.html>
- <http://www.edheads.org/activities/weather/>

Video Podcasts

- Podcasts are downloadable media that can be either audio files or video.
- Most are free and can be downloaded to an ipod, computer or other mp3 player.
- There are many places to find these podcasts.
- Here are a few...

Video Podcasts

- iTunes has both video and audio podcasts
- Ecogeeks Video Podcast -
<http://www.thewildclassroom.com/biomes/index.html> or
<http://www.untamedscience.com/podcast>
- http://pbskids.org/dragonflytv/rss/DragonFlyTV_rss.xml
- iTunes U

Managing Podcasts

- use a podcast aggregator, such as iTunes, to organize and keep track of your podcasts
- save time finding new podcasts by subscribing to your favorite podcasts
- you can subscribe in iTunes or other aggregator programs

Wrapping Up

- Try to incorporate multimedia into your classroom on a regular basis to increase interest and student engagement.
- Use a variety of multimedia to keep the instruction fresh
- Be sure the multimedia aligns well with the content and is NOT just a fun “classroom filler”
- Get students involved in creating multimedia projects to increase understanding and content knowledge of the concepts being taught

Contact Info

- Feel free to contact me with any questions concerning the presentation.
- email: dave_shellhaas@darke.k12.oh.us
- phone: 937-548-5155 ext. 221

- Handout available at:
<http://www.darke.k12.oh.us/curriculum/sci/science>

- Thanks for attending!!