

Resources for Engaging Struggling Learners with Videos

Presented by Carolyn Briles (carolyn.briles@lcps.org) and Dr. Connie Schrock

Videos Used in this Presentation

The Classroom:

Mr. John in Mathclass <http://www.youtube.com/watch?v=KdxEAt91D7k>

Quadratics:

Angry birds <http://www.youtube.com/watch?v=bsYLPiXI7VQ&feature=youtu.be>

Concept Animation <http://www.mathopenref.com/quadvertexexplorer.html>

Probability Spinner in the Old West:

http://www.youtube.com/watch?v=QpfMwA0z_1Y

The Pythagorean Theorem:

Wizard of Oz <http://vimeo.com/44428561>

Student Rap <http://www.youtube.com/watch?v=DRRVu-RHQWE&feature=related> (not shown but good)

Ordinary People Doing Extraordinary Things:

From Farmer's Insurance <http://www.youtube.com/watch?v=G4ZkMkqy7Us>

Other Topics Not Shown Today:

Exponential Growth and Decay <http://www.youtube.com/watch?v=YtzbvjZhV18>

<http://www.youtube.com/watch?v=t3d0Y-JpRRg>

<http://www.youtube.com/watch?v=e4MSN6IImpl>

Sources for videos

Mathematics: <http://www.youtube.com/user/jbmathfunnew> (youtube channel)
<http://www.youtube.com/user/Vihart> (youtube channel)
<http://www.math.harvard.edu/~knill/mathmovies/>
<http://world.std.com/~reinhold/mathmovies.html>
<http://www.math.tamu.edu/~dallen/hollywood/mathindex.htm>
<http://www.teachertube.com/>
<http://www.youtube.com/>
<http://www.thinkport.org/classroom/onlineclips/mathclips.tp>
<http://blog.mrmeyer.com/>

General: <http://www.wingclips.com/>
<http://movieclips.com/azq-classroom-setting-videos/#p=1>

Video Downloaders: YTD http://download.cnet.com/YTD-Video-Downloader/3000-2071_4-10647340.html
HOW's Free Youtube Downloader http://download.cnet.com/Free-YouTube-Downloader/3000-2071_4-75219434.html
KeepVID <http://keepvid.com/>

Finding Concept Animations

- Search for “*conceptName animation*” or “*conceptName java applet*”
- <http://illuminations.nctm.org/>

Virtual Manipulatives

- <http://nlvm.usu.edu/en/nav/vlibrary.html>
- http://www.glencoe.com/sites/common_assets/mathematics/ebook_assets/vmf/VMF-Interface.html
- <http://www.educational-freeware.com/online/virtual-manipulatives.aspx> (how to use the Glencoe site)

Screen Capture for Making Your Own Manipulatives

- *Windows 7 Snipping Tool* (go to Start menu, search for “snipping tool”)
- *Jing* - free download at <http://www.techsmith.com/download/jing/>
- *Greenshot* – free <http://getgreenshot.org/>
- *Adobe Reader Snapshot Tool* (under either Edit or Tools depending on version)
- *Promethean Camera Tool* – copy to clipboard

Research on Motivation/Engagement

- “*Motivation Matters,*” - great article that summarizes the research with links to sources
<http://www.forbes.com/sites/jamesmarshallcrotty/2013/03/13/motivation-matters-40-of-high-school-students-chronically-disengaged-from-school/>
- *Engaging Schools: Fostering High School Students' Motivation to Learn* by the National Research Council – book with good ideas for increasing all aspects of engagement
<http://www.nap.edu/openbook.php?isbn=0309084350> (register to download chapters)
<http://www.amazon.com/Engaging-Schools-Fostering-Students-Motivation/dp/0309084350> (to purchase)
- “*Student Motivation: An Overlooked Piece of School Reform*” by Alexandra Usher and Nancy Kober, May 22, 2012 by Center on Education Policy – excellent set of papers based on current research
<http://www.cep-dc.org/displayDocument.cfm?DocumentID=405> (to download papers)