

Top 10 Technology Resources for the Mathematics Classroom

10: Math WarmUPs for Class

MAA Math Minute	http://maaminutemath.blogspot.com/
Brain Den	http://brainden.com
Cartoons	http://www.glasbergen.com/?s=math

9: Videos for Topic Starters

9A: You Tube

Math in the Real World	http://www.youtube.com/watch?v=vFRTgr7MfWw&feature=related
Parabolas in the Real World	http://www.youtube.com/watch?v=Djnwlj6OG9k
Linear Equations	http://www.youtube.com/watch?v=J_U93-I5Z-w

9B: Math in the Movies

Math in the Movies <http://www.math.harvard.edu/~knill/mathmovies>

Lines – Caddy Shack

<http://www.math.harvard.edu/~knill/mathmovies/swf/caddyshack.html>

Least Common Multiple – Father of the Bride

<http://www.math.harvard.edu/~knill/mathmovies/swf/fatherbride.html>

Long Division – Mad Mad World

<http://www.math.harvard.edu/~knill/mathmovies/swf/madmadworld.html>

Powers of 3-- Pay It Forward

<http://www.math.harvard.edu/~knill/mathmovies/swf/payitforward.html>

Word Problems -- Little Big League

<http://www.math.harvard.edu/~knill/mathmovies/swf/league.html>

9C: Nolting Study Skills Videos

- What You Need to Know to Study Math
- Discover Your Math Learning Strengths and Challenges
- Reduce Math Test Anxiety
- Improve Your Listening and Note-Taking Skills
- Improve Your Reading, Homework, and Study Techniques
- Remember What You Have Learned
- Improve Your Math Test-Taking

8: Demonstrations

Technology Demonstrations <http://demonstrations.wolfram.com/>

System of Equations

<http://demonstrations.wolfram.com/GraphingSystemsOfInequalities/>

Cartesian Coordinates Exercise

<http://demonstrations.wolfram.com/CartesianCoordinatesExercise>

Lines: Slope-Intercept

<http://demonstrations.wolfram.com/LinesSlopeIntercept/>

Greatest Fenced Area

<http://demonstrations.wolfram.com/TheGreatestFencedAreaAlongABarn/>

7: Animations

7A: National Library of Virtual Manipulatives <http://nlvm.usu.edu/>

Algebra Tiles: Factor $x^2 + 7x + 6$

http://nlvm.usu.edu/en/nav/frames_asid_189_g_1_t_2.html?open=activities&from=topic_t_2.html

Vertical Shifts:

http://nlvm.usu.edu/en/nav/frames_asid_329_g_4_t_2.html?open=activities&from=topic_t_2.html

Algebra Balance Scales

http://nlvm.usu.edu/en/nav/frames_asid_201_g_4_t_2.html?open=instructions&from=topic_t_2.html

7B: Interactivate <http://www.shodor.org/interactivate/tools/>

Conics: $(x-h)^2 + (y-k)^2 = r^2$

– <http://www.shodor.org/interactivate/activities/ConicFlyer/>

Graphit

– <http://www.shodor.org/interactivate/activities/Graphit/>

6: Recording Tools

6A: Screencast-o-Matic <http://screencast-o-matic.com>

6B: Xtranormal <http://www.xtranormal.com>

6C: Camtasia or Jing <http://www.techsmith.com/camtasia.html>

5. Graphing Tools

5A: Geogebra <http://www.geogebra.org/cms/>

<http://www.youtube.com/watch?v=SVSNHhCeukw> (Youtube tutorial)

5B: Game Aquarium <http://gameaquarium.com/graphingtools.html>

5C: TI-SmartView™ Emulator Software

<http://www.youtube.com/watch?v=blxaN6DCRqo> (Youtube tutorial)

4: Instructor Resources

Stewart Website: <http://www.stewartmath.com>

Tussy Website: <http://www.cengagebrain.com>

Stewart Calculus: <http://www.stewartcalculus.com/tec>

3: eBookshelves

eBook Organizer: <http://www.coursesmart.com>

2: APPS

Free Graphing Calculator

StatsMate

Slideshare <http://www.slideshare.net>

Quizlet <http://www.quizlet.com>

1: Enhanced Web Assign

Online Homework System: <http://www.webassign.net>