Simplify Your Life: Tips and Tech Every Teacher Should Know

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AIAA ST. Louis STEM Chair
Google Educator
6-7th Grade Science Teacher
Greenville Jr. High School
About Me

- Teacher for over 20 years
  - 1st, Title 1, 4th, 6th, 7th, SIUE
- Master in Reading Instruction
- Master of Administration
- National Board Certification in 2004 - ELA
- Grant Writer - NASA Explorer School
- Flew in Microgravity twice - NASA, Zero-G
Reach for the Stars
You Make a Difference!

- Planning and preparation for success is the first step.
Helpful Programs

- Planbook.com
- Google Slides
- Google Classroom
- Online Evaluation Document
- Google Expeditions
Planbook.com

- tutorials
- cost $15 year
Google Daily Slides

- Google Daily Slides
- Great for transitions
- Parent Communication
- Paraprofessionals
- Administrators
- FREE

Great Communication Tool
Google Classroom

- Student and Teacher communication platform.
- Great place to have all of your student files in one location.
Online Evaluation Evidence Document

- Use Google Docs to create list of Evidence
- Link all evidence to it via Google Photos/Drive
- Email links to each domain to your principal
- New evidence = red
- Easy to share if grade level or job change

<table>
<thead>
<tr>
<th>Domain 1: Planning and Preparation</th>
<th>Evidence /Artifacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a: Demonstrating knowledge of content and pedagogy</td>
<td>2012-16: Lesson plans are directly related and adapted to the new Common Core scope and sequence. See in Curriculum Mapper as well as my Google Drive. All lessons are in the folder when you click on lesson plans.</td>
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<tr>
<td>2014-2016: Common Core Math Curriculum Developed.</td>
<td>This is what I created and shared with all 4th Grade teachers in the district. There are many different websites links, videos, as well as printable worksheet. All teachers are then able to login and add information and worksheets as well. This is updated as well in the link above. I have added Go Math resources to the Math Links provided.</td>
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<tr>
<td>2017-18: Lesson Plans are now done on a program called Planbook.com. I am able to share this with other teachers as well as sub. Sample Weekly Lesson.</td>
<td></td>
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<td>2012-2016: My website also has many different webquests that I have made to engage the students which directly relate to the standards. Science Links and Social Studies Links.</td>
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<tr>
<td>2017-18: I no longer use my own website for students to get links. Now I use Google Classroom for each class. I also use the Weekly Homework document so students and parents can access links.</td>
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<td>2012-17: Using Learn Zillion and Prodigy helps to identify possible student misconceptions about topics. It has sections in each main lesson about mistakes to avoid. Attached here are the notes that I have the students fill out for every standard.</td>
<td>Blank Template</td>
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</tbody>
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Online Evaluation Evidence Website

- Use Google Sites to create your online binder
- Link all evidence to it via Google Photos/Drive
- Email Administrator your link to site
- Easy to share if grade level or job change

**Detailed Evidence Website**

*** You have to duplicate this site or you will be editing my original - [video]
American Institute of Aeronautics and Astronautics

- STEM Grants
  You’ll be eligible for a $500.00 AIAA Foundation grant that provide funds for STEM project supplies.
- AIAA Engage
  Connect with all of your AIAA colleagues online. Find your community and join the conversation.
- Gain Recognition
  Qualify for AIAA Foundation Educator Achievement Awards.
  a. Local and National Awards
- Local events and opportunities through the St. Louis Branch

Educator Membership
Free Membership
Google Expedition - VR
Bring your lessons to life with Expeditions

Introduce your students to a new way of learning with virtual reality (VR) and augmented reality (AR). Download the Expeditions app to get started.
S - Science

- Sign up for STEM-EDA
  - Premade cross curricular units
- NICERC Instructure
  - DATABASE of units from STEM-EDA
  - Great database for all grade levels
  - FREE, but you must request access
- Interactive Simulation Website
  - Great site full of simulations
- AIAA Air and Space Adventure
- AIAA STEM Drive
- **Code.org**
  - Great site to get kids started with coding.

- **Ozobots**
  - More of a primary coding activity, but can be used as an introductory activity.

- **Sphero**
  - Sphero fuses physical robotic toys, digital apps, and entertainment experiences to unlock the true potential of play and inspire tomorrow's programmers and engineers.

- **Bloxels**
  - Allows them to create their own video games
M - Math

- **Better Lessons Database**
  - Database includes resources for all academic areas

- Sign up for [STEM-EDA](#)
  - Premade cross curricular units

\[
q_R (R) = \sum_c p(c) \int_{\rho_1}^{\rho_2} p_0 (\rho) \left[ q(x_{\text{min}}) \right] d\rho + \sum_i \frac{1}{r_i}
\]

\[
q_{x_{\text{min}}} (R) = \sum_{j=1}^{\ell(X_{\text{min}})} q_j \delta^3 (R - R_j)
\]
What if I don’t teach Science!

- STEM encompasses all subject areas
  - Science, Technology, Engineering, Arts, Math
  - EVEN ... ELA
  - Every lesson has a writing or presentation component to it.
  - Listening, speaking, viewing standards
  - Presentation Rubrics
  - Grammar Rubric
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Survey