



Going Google in the Math Classroom

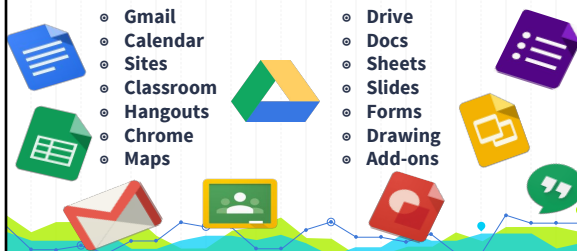
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Pre-survey:

<http://goo.gl/forms/2RVcxPaz3v>

What are Google Apps for Education (GAFE)?



Google Apps

- Share files with anyone who has a Google account
- COLLABORATION
- Store all your Google Apps files in Google Drive
- Store other types of files (doc, pdf, etc.) in Google Drive
- Anywhere you have internet access
- Offline access available
- App for phones, tablets, etc.
- GAFE is FREE to schools
- FERPA compliant
- No data collected for ads
- Email available for under 13 year olds



Google Drive, Docs, Sheets, & Slides

Google Docs & Slides



- Portfolios
- Reflections/journals
- Math modeling
- Projects/Presentations

*** Equation editor in Docs (under Insert)

Google Sheets



- Create formulas
- Create charts/graphs
- Data collection & analysis



Google Forms

Ways to use Google Forms



- Bellringers
- Exit tickets
- Quizzes, Pre-tests, Common assessments
- Assess prior knowledge
- Surveys
- Collect information
- Self-grading quizzes using Flubaroo
- Auto-populates to spreadsheet
 - Data collection
 - Statistical analysis
 - Spreadsheet functions
 - Charts & graphs

More about Google Forms



Question types

- Multiple choice
- Checkboxes
- Dropdown
- Text box
- Scale
- MC grid (shared column headings)

Advanced Options

- Insert images and videos
- Shuffle order (questions & answer choices)
- Section and page breaks
- "Go to" based on answer



Google Add-ons & Extensions

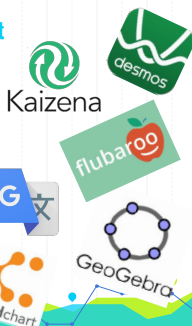
Ways to Make Google Apps More Math Classroom Friendly



Add-ons are App-Dependent

A few examples...

- Kaizena -- for docs
- GeoGebra -- for docs
- g(Math) & desmos-- for docs, sheets, forms
- Formula Editor -- for docs
- Translate -- for docs, sheets
- Lucidchart -- for docs, sheets
- Doctopus (Goobric) -- for sheets
- flubaroo -- for sheets (grade forms)



Google Classroom

What is Google Classroom?

- Available to all teachers and students at GAFE schools
- Co-teaching available
- There's an APP for that

<https://classroom.google.com/h>

More about Google Classroom

- Emails students about new posts automatically
- Announcements & Discussion Questions
- Post, collect, and return assignments to students which also allows for living/lasting archive of student work
- Use Google Apps, Links, Videos, Word, Excel, PDF, etc.
- Shared or individual work

Even more about Google Classroom

- Use chrome extension to automatically send links
- Web apps integrate with Classroom
 - cK-12
 - Discovery Education
 - Duolingo
 - Geogebra
 - IXL
 - Newsela
 - OpenEd.com
 - PBS Learning Media
 - Pear Deck
 - Zaption
 - many, many more
 - more added all the time

Add'l Ideas & Tips for Google Classroom

- Using comments as [bellringers](#) or a discussion board
- Use "About" as a [class resource page](#)
- Meet IEP requirements by giving students copies of notes/resources
- Students post links for their work on other sites (thinglink, padlet, etc., etc.)
- Students can share Google files with classmates
 - Great for group work or peer editing
 - Keep an eye out for cheating on individual assignments

Google Drawing

Ways to use Google Drawing

- Draw angles & figures
- Visual vocabulary/dictionary
- Flashcards
- Diagrams & concept maps
- Illustrated journals or notebooking
- Draw problems to help understand & solve
- Insert images or photos

Getting Help

- ❑ Google Training Center

<https://edutrainingcenter.withgoogle.com/resources/tools>

- ❑ g(Math) guru

<http://www.gmath.guru/>

- ❑ Free Technology for Teachers (also Facebook & Twitter)

<http://www.freetech4teachers.com/>

Resources & Additional Help

- <https://www.youtube.com/watch?v=MXW0JMr-V0U>
- <http://www.shakeuplearning.com/blog/20-awesome-apps-that-integrate-with-google-classroom/>
- <https://sites.google.com/a/lvusd.org/teaching-with-google-apps/lesson-plans-by-google/drawing>
- <http://alicekeeler.com/2014/07/19/math-creating-angles-in-a-google-drawing/>