




Google


apps and how to be cost effective






Please stop me
at all points and
ask any question.

I hate just talking about what
matters to me. Ask specifics and if
I can't answer you I will surprise
you and say I don't know. Then find
the answer for you.





Catch your
attention part.

ChromeBit - Cost saving for 1:1?

THE EXPEDITIONS PIONEER PROGRAM



Legal Questions I get:

- [FERPA](#) Terms of Service - Section 7.4. Applies to Email, Calendar, Docs, Drive, Groups, Sites, Chats/Hangouts, Mobile. Does not apply to Blogger, Youtube, Translate, Maps, Google+, Analytics, Voice.
- HIPAA Compliance - If signed (digitally) a Business Associate Agreement ([HIPPA](#)) for Gmail, Google Calendar, Google Drive and Google Apps Vault.

Which Device?

It should not matter what device you choose. Be device agnostic.

What's important is not so much the hardware as the cross platform experience.

One to One does not always mean one student to one device. Look beyond the device thing of the delivery to the student and once you can achieve that look to the device.

Why not Android and iPads (above primary)

- Bluetooth
- Keyboards
- Screen Cost
- USB Connections
- Management

All additional cost to your district. When someone says a device is \$200 ask: What are the hidden cost of testing and maintaining the device (including labor for the extras).

Google Classroom

Its is not an LMS (but it is getting closer no matter what Google is saying)

Manage YouTube access for students through Classroom by teachers.

Easy to use document management for your teachers.

Something to look at if the district has no LMS at this time.

Who to contact at Google?

John Allen

Johnallen@google.com

Google Drive

Free storage for your district (start replacing internal storage)

Easy to use Collaboration for projects

Revision History (Ever asked who add that line or when was that added)

Docs

As long as you're on Office 2016 they are basically the same thing. Google people will say Go Google and Office people will say Go Office.

Google Sheets vs Excel

Where Google Sheets shine:

- **Collaboration:** As others mentioned, collaboration is where Google really shines. It's *incredibly* easy for multiple people to work on a spreadsheet simultaneously, and this makes for a powerful project management use case. I've tracked multiple project plans with 10+ (sometimes 30!) people making edits at the same time.
- **Cloud Storage:** Underrated feature when people typically make this comparison, but I've found huge value to be able to start work on a desktop computer, continue working on it in a laptop, and even make changes on mobile. This works seamlessly.
- **Version Control:** Have you seen files named like "*Analysis v12.3 LX [final][present ready] 20141208.xlsx*"? Yeah, doesn't happen in Sheets, but you still get the document history backed up to virtually every change you made in the same document.
- **Apps Script:** People typically laud VBA as something that makes Excel very powerful. Unbeknownst to most, Google Apps Scripts does that as well, and it's an exceptionally powerful tool, based in Javascript. You can easily run scripts, and connect to APIs and such with some work. It's so much easier to connect to other resources on the web.

Google Sheets vs Excel

Where Excel shines:

- **Raw Processing Power:** Excel uses memory more efficiently as a native app (on Windows) and is much more responsive. If you are analyzing 10,000+ rows of data, I'd say it's a no-brainer to use Excel. That said, if you are managing very large data sets (300,000+ rows), I'd urge you to consider a real data analysis tool (SQL, Matlab, etc.) instead. Even Excel stalls (trust me, I've had Excel running on 4 cores overnight).
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- **Chart Formatting:** Excel (2013 at least, but I'd say 2010 and 2007 as well) offers extensive options for formatting charts that Sheets simply cannot do. Changing axis names, formatting data values, etc. - they matter when you are presenting to executive audiences. This extends somewhat to formatting in general.
- **Exploratory Analysis:** This is my go-to use case of Excel. Excel has much more built out pivot table, filtering, conditional formatting, and other data visualization tools. When I see a data set for the first time, I always open it in Excel to have a better understanding of its structure.
- **China:** If you want to deliver something to China, you simply cannot use Google Apps since it's blocked!

Slides vs Powerpoint

See Docs vs Word. A toss up of preference.

Cost

1. Google is free.
 - a. With the exception of the management cost for devices (most of the time that is pre packaged in the device cost)
2. Microsoft free add-ons to Microsoft Enterprise Licensing Package provided on a state contract.
 - a. Check the pricing after November. 30th.