



1:1 Initiative & Going Google

# District Goal

- To use technology in all areas of the curriculum to create a rigorous and relevant learning environment that:
  - Engages students
  - Builds critical thinking skills
  - Encourages collaboration and creativity
  - Promotes understanding of global interrelationships and multiple cultural perspectives
  - Allows for greater and easier access to information

“Today’s education system faces irrelevance unless we bridge the gap between how students live and how they learn.”

–Partnership for 21st Century Skills  
<http://www.21stCenturySkills.org>

How do we achieve  
our goal?



# Google™ Apps for Education



Education On Cloud Model With Google Apps

# Why Google Apps For Education (GAFE)?

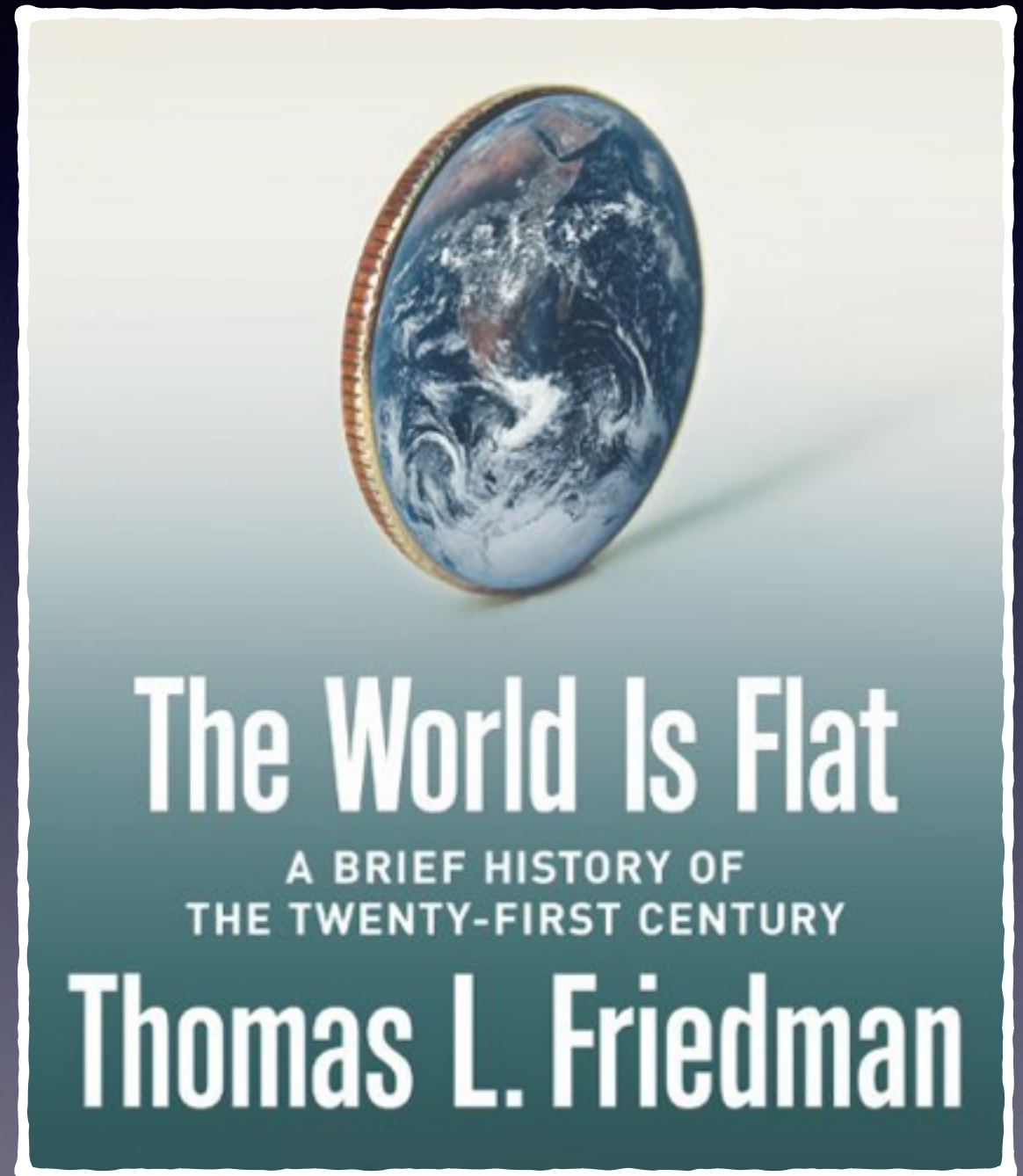


It Must Start With Our  
Teachers

# Culture Change - How do we get there?

“People don’t change when you tell them they should.

They change when they tell themselves they must”



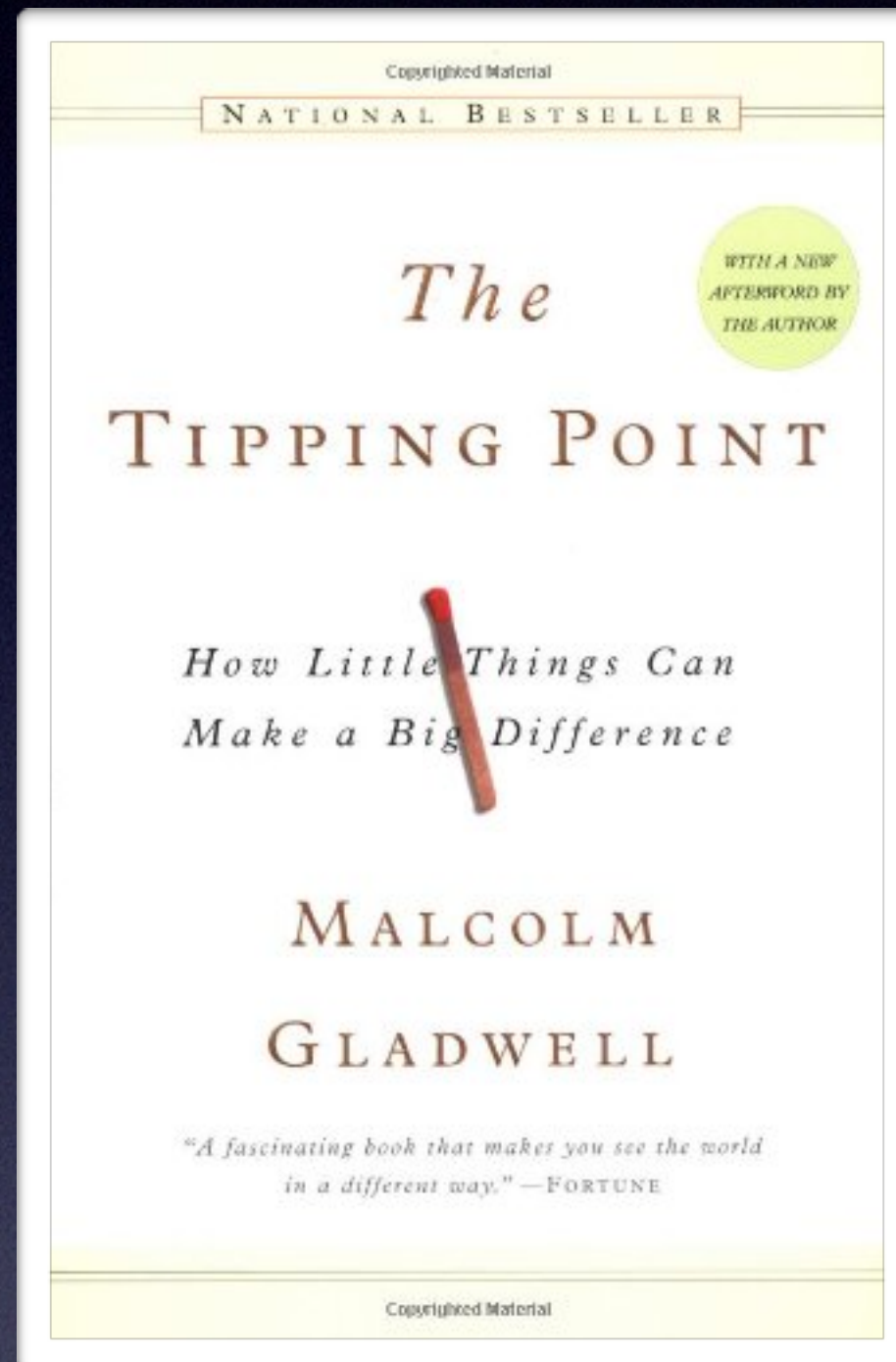


Teachers **must believe** that  
implementing transformative  
technology infusion practices will  
**improve learning.**

Must begin with **Opt-**  
**in...**

Only then will we adopt change.

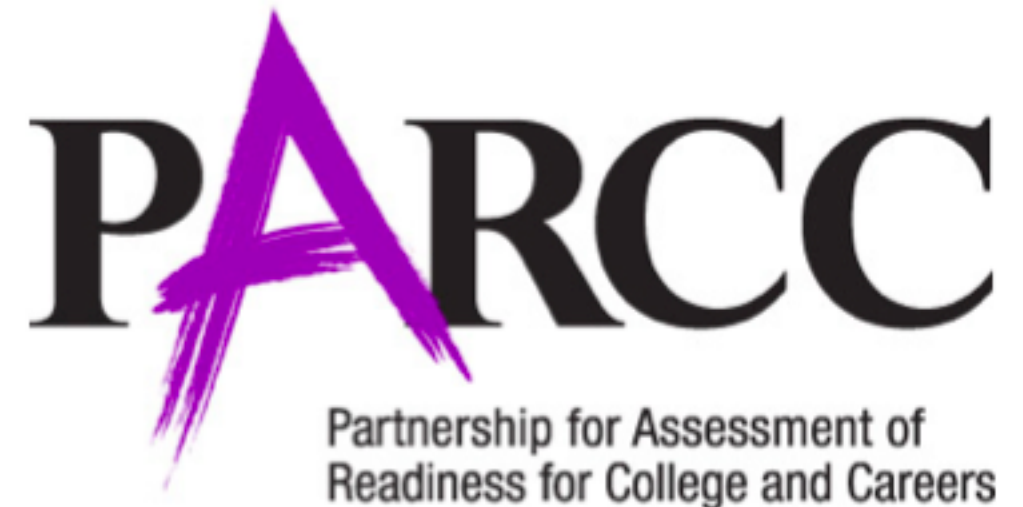




# Spread of Ideas and Behavior



# Rule # 1: The Power of Context





# The Plan

## The Power of Context - Opt In

- Identify the teachers that are already transforming their classrooms or that want to:
  - K-6 Schools. Teachers have been identified at each school that want to incorporate Chromebooks into their daily teaching. Classroom carts are on their way.
  - 8th grade teachers at BF using Chromebooks with their classes.
  - GW Students using Chromebooks in Media Center and a small group of students is piloting them as a 1:1 device.
  - High School teachers using Chromebooks and GAFE in their daily lessons. Some are already Google Educators.
  - Google Summit - Teachers, Administrators and Staff attended a 2-day Google Summit. These teachers are now communicating and collaborating with each other, learning, asking questions, sharing ideas.



# **Rule #2: The Stickiness Factor**

**Keep our Vision Simple**



# The Plan

## Stickiness Factor

- Focused PD - Google Apps
- Create Tech Coaches at each building. Teachers must apply and *want this*.
- Provide them the tools and the opportunities to be successful:
  - Google Educator Certification
  - District created Google Communities and Groups
  - Google Hang-outs
  - Conferences, user groups, web-resources, other online PD, etc



# **Rule #3: The Law of the Few**

**20%**



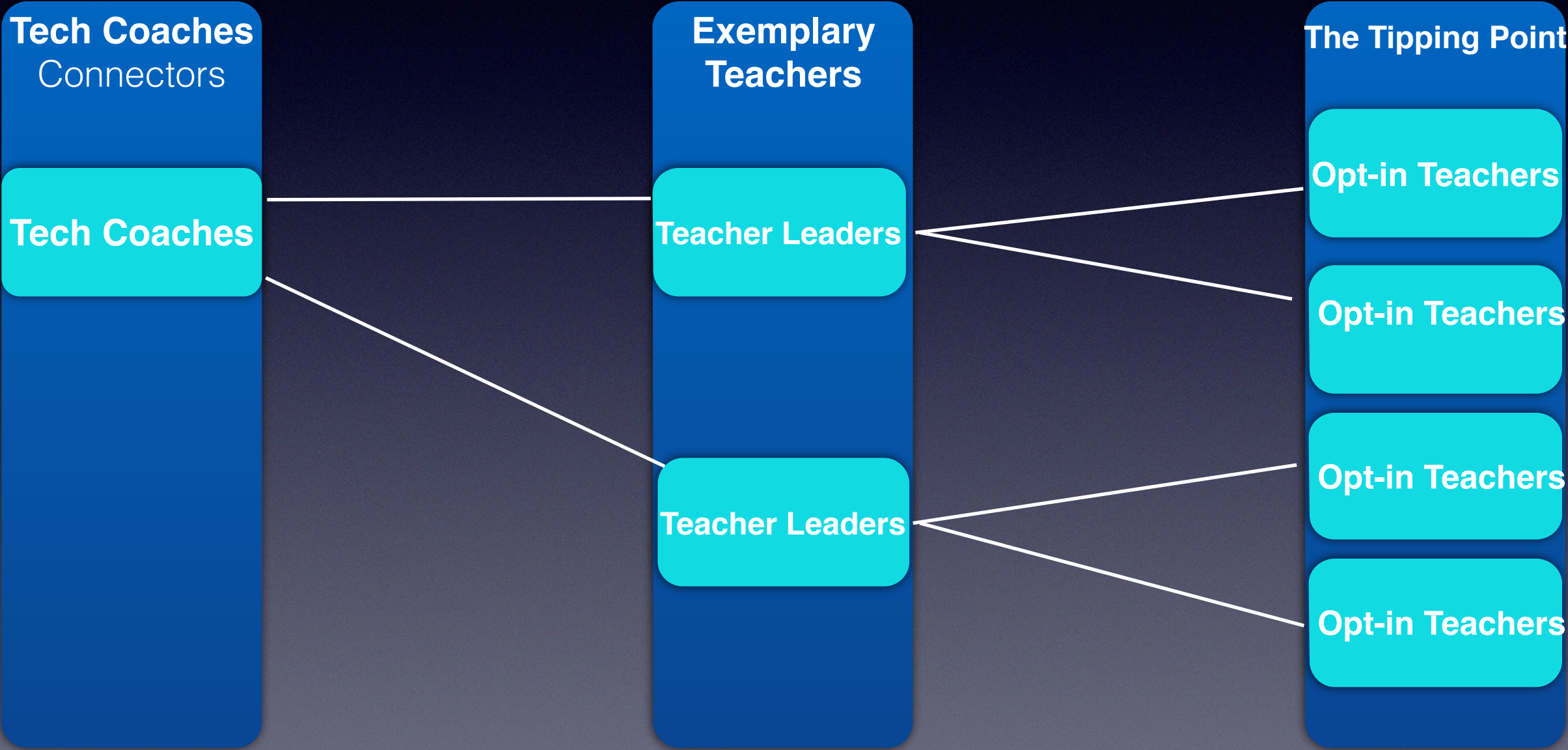
# The Plan

## The Law of the Few

- Innovative PD opportunities for all teachers.
  - Summer “Digital Evolution Summit”
  - Start of the year “RPS Is Going Google!” Day.  
Inspirational keynote, workshops by RPS teachers illustrating what they are doing with the new tools.
  - Create excitement - then show the teachers all of the way that they can receive PD throughout the school year that can help them get to that “tipping point”



# Teacher-Driven, Teacher-Led, Teacher-Powered



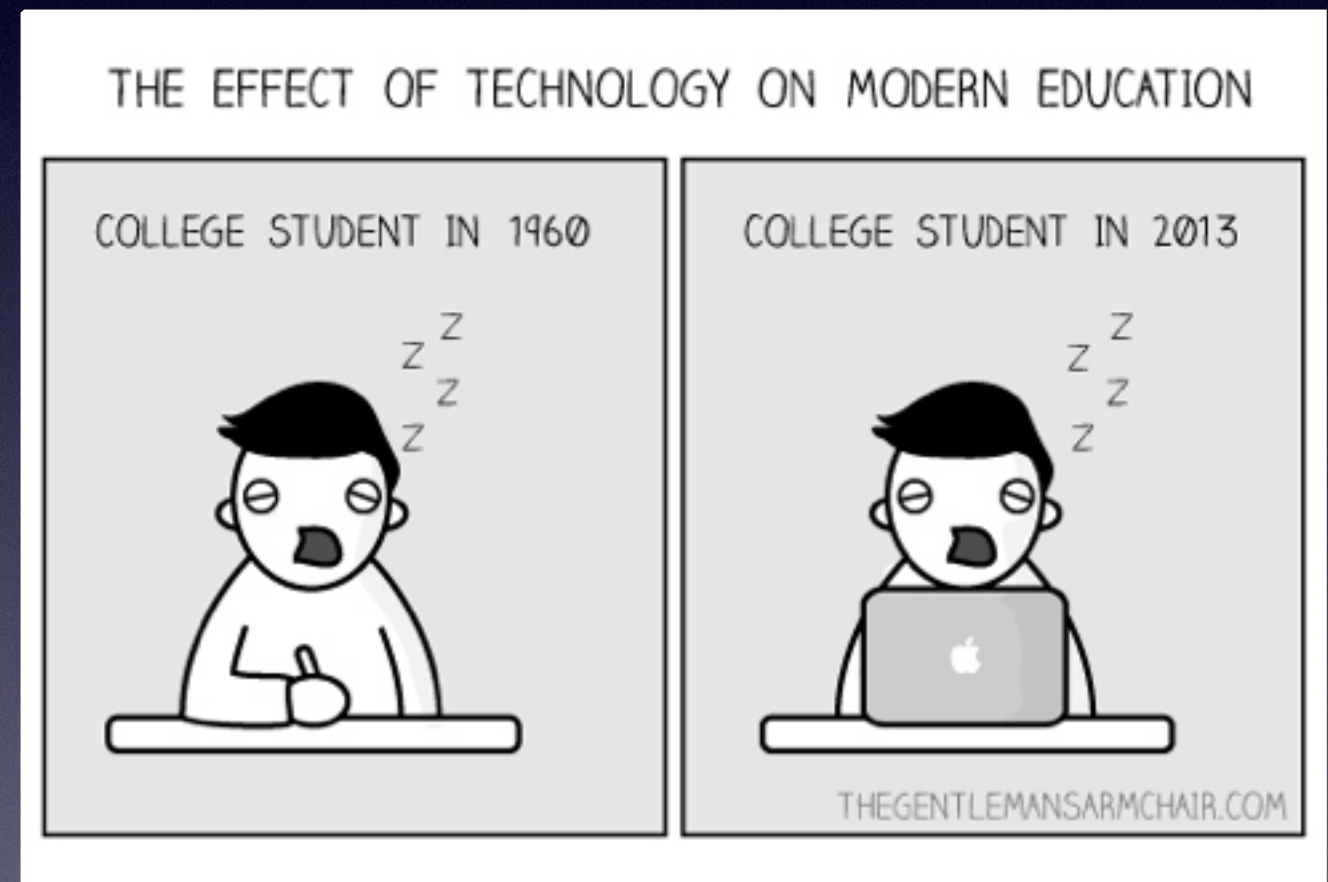
The Tipping Point!



# Transformative Practices

## First vs. Second Order Integration

- **1st Order Change**
  - Teacher-directed
  - Digitizing worksheets
  - Electronic Typewriter
  - ***\$1,000 pencil activities***





# Transformative Practices

## First vs. Second Order Integration

- **2nd Order Change**
  - Self-directed learning
  - Technology facilitated collaboration
  - *Non-Googleable* questions
  - Authentic demonstrations of learning





# Transformative Practices

## What Does 2nd Order Look Like?

- **Non-Googleable Questions**
  - **NOT** Who is Johannes Gutenberg ...
  - **INSTEAD** - Compare the impact of Gutenberg to Mark Zuckerberg.
- **Demonstration of Learning**
  - **NOT** drawing linear equations on quiz or test
  - **INSTEAD** - Student discuss and record themselves drawing linear equations explaining how & why



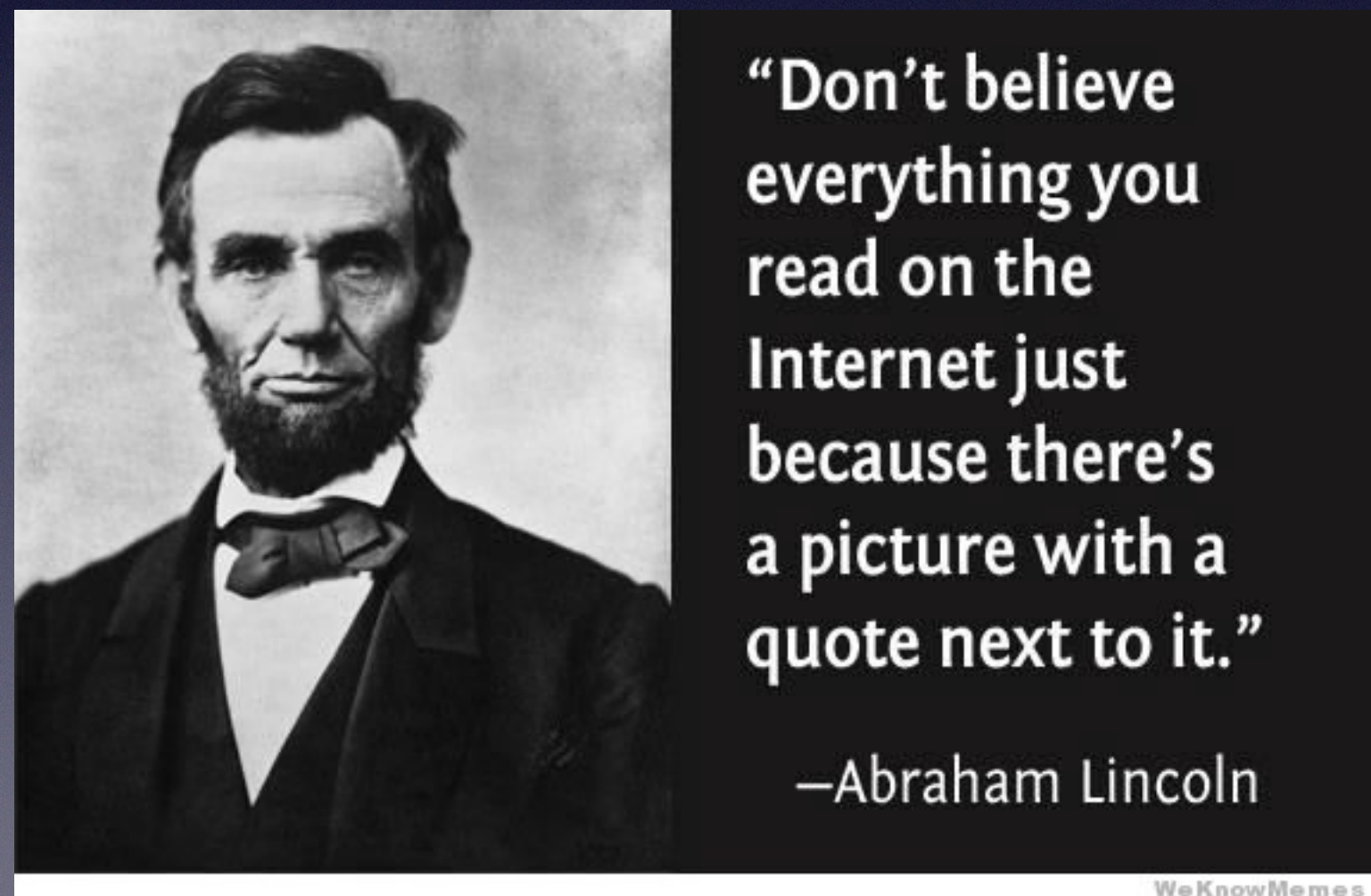
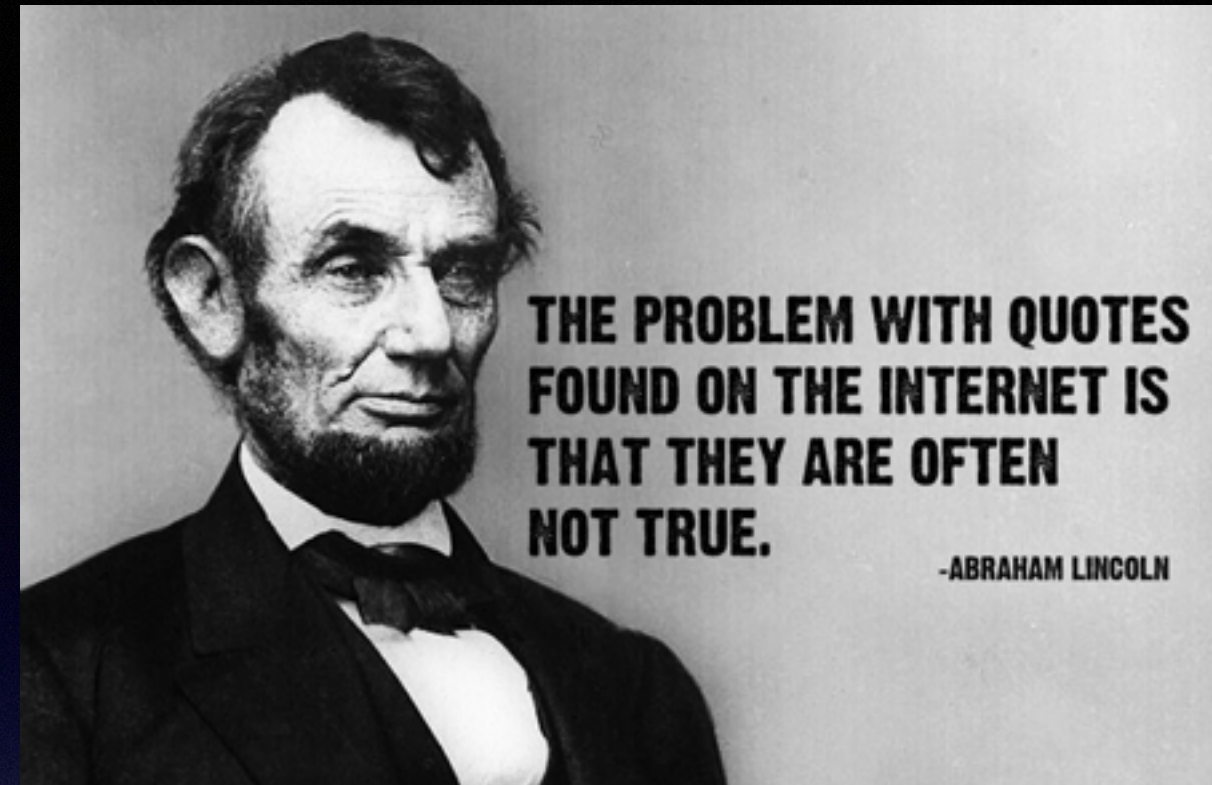
# Transformative Practices

## What Does 2nd Order Look Like?

- **Transfer of Ownership**
  - **NOT** teacher & students develop notes individually
  - **INSTEAD** - Collaborative classroom notes in a shared Doc.
- **Authentic Insight, Feedback & Publication**
  - Observe the writing process in **REAL TIME**
  - **NOT** student submits paper for teacher to edit and grade
  - **INSTEAD** - Students share document with peers, classroom teacher and others to leave voice feedback and publish online.



# Digital Literacy & Effective Research





# Technical Details

- We are investing in our infrastructure.
  - Migrating to new 802.11 A/C Access Points
  - Full coverage at RHS
  - New Cat-6 cabling to ensure effectiveness and to future-proof.
  - Monitoring our bandwidth and preparing for the inevitable need to add more.
  - Constantly working to streamline our Active Directory and Google Admin settings.



# Roll-Out

- 1:1 Committee
  - Researching and creating Policies, Procedures, Expectations, Insurance Policies, etc.
  - Working with vendors and other schools to come up with an effective rollout plan that would include white glove services, engraving, deployment methods





# Why Chromebooks?

- Affordability
- Deployability
- Usability
- Supportability
- Managability

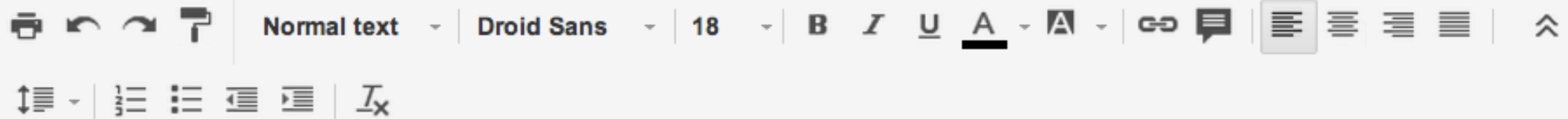




# 10 Sentences Google Teachers Never Hear

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File Edit View Insert Format Tools Table Help All changes saved in Drive



1. "I forgot to save my work."
2. "I finished my paper, but it's on my computer at home."
3. "My printer is broken."
4. "I can't work on the presentation because I don't have that expensive presentation software at home."
5. "Oh, shoot. This is an older version of my paper."
6. "My paper is on a thumb drive, and I can't find it."
7. "Do you have a stapler?"
8. "PC Load Letter problem."
9. "I can't open .docx files."
10. "I tried to email this document to myself so I could print it out at school, but it's not in my inbox."



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<http://www.joshuakoen.com>