

**A Look at what is
currently being
done with
technology and
what teachers
would like to do
with more devices.**



Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change

Transformation

Enhancement



A large red square with a white border, centered on a white background. Inside the square, the words "Elementary School" are written in white, bold, sans-serif font, stacked vertically.

**Elementary
School**

How does the ES currently use technology?

- iPads for Daily 5 reading stations (listen to reading, writing, word work)
- iPads for Math
- Technology for testing (Star 360 & state testing)

Elementary Tech Distribution

	iPads	SMART Board	Desktop Computer	Teacher MacBook	Student MacBooks
Kindergarten	2 classrooms have 5 2 classrooms have 1 1 classroom has 0				
1st Grade	1 per classroom		5	5	
2nd Grade	1 per classroom 2 classrooms have 5		4	5	
3rd Grade	6 per classroom	2		5	
4th Grade	- 5-6 per classroom - Robin Eissler's Room has 25	3		4	
5th Grade	10 per classroom			4	
Shared Building Wide					70

What could you do with more devices?

- Google Classroom all the time
- Movie making, digital storytelling
- Incorporate into Learning rotations
- Strengthen our digital writing production
- Implement eMINTS strategies
- Projects
- Projects that require research & design for all Curriculum Areas.

What devices would the ES need and how many?

- 1 to 1
- Grade level or Class sets of laptops or Ipads.
- 5-10 iPads per classroom
- Smartboard

A large red square with a white border, centered on a white background. The text "Middle School" is written in white inside the square.

**Middle
School**

At the present time, the middle school has the following available technology:

- 50 MacBooks (new this year)
- 46 iPads
- 26 ChromeBooks (new this year)
- 34 Desktops

How does the MS currently use technology?

- Webquests, presentations and simulations
- Use ipads/Macbooks to research and create presentations
- Use iPad apps and websites as part of class activities
- Use iPads and/or cell phones for activities and Kahoot.

- Use Apple TV
- Keynote presentations on MacBooks
- Use YouTube videos for journaling
- Google classroom
- Use devices in special education room for MobyMax, IXL and Nessy programs.

If we had more technology at the middle school...

- Create a textbook for my class
- Simulations
- Research
- Use Google classroom
- Differentiate Instruction
- Use for writing assignments and give students practice in editing their work
- More exposure to technology prior to state testing

Examples of use:

Simulation Activity:

<http://www.mission-us.org>

Layered Curriculum

SOAR: Holocaust Activity

Webquest:

<http://foxtara.weebly.com/anne-frank-webquest.html>



**High
School**

How technology is currently used at the high school:

- Delivery of material - Powerpoint, Keynote, Google Slides etc.
- Research, Papers, Presentations, and Projects
- Formative/Summative assessments (Quia, Socrative, Plickers, Kahoot, etc)
- Labs and Data Collection
- Student Assignments through Google Classroom
- Flipped Classroom
- Group Collaboration - Padlet, Google Docs
- Interactive Online/Virtual Simulations

Science

- Utilize Google Classroom - paperless classroom
- Set up online science notebooks & portfolios - Seesaw, Livebinders, etc.
- Open classroom to collaboration with science professionals through Skype, Google Hangout, Twitter, email, etc.
- Flipped classroom, better utilization of teacher website
- Electronic data collection
- More research, engineering & design projects
- More inquiry based projects and labs with accompanying presentations of results and conclusions.

Social Studies

- More opportunities for students to demonstrate knowledge above and beyond.
- Implement Google Classroom more.
- Use polling sites to poll students on various issues and topics discussed.
- More investigative projects.

English

- Flipped Classroom, Edmodo, Google Classroom
- Discussion across classes instead of within one class.
- Paper writing done at home instead of using multiple class periods for writing papers
- Research projects, project based learning opportunities
- Diversify Learning - creation of animations, classroom publications, game based learning.
- Lessons done because of need not because of lack of or no access to devices.

Electives

- Research projects
- Implement ear training and music theory activities.
- Better utilization of teacher websites
- Use apps to monitor caloric intake, exercise activity, keep a daily activity and health issues journal
- Digital portfolios
- Differentiated instruction via online tutorials, videos, webinars etc.
- Use of online software for manipulation of original works

Math

- flipped classroom
- presenting material
- creating graphs
- various calculators
- Interactive simulations
- tutoring video access

Flipped Classroom

- especially beneficial in classes where practice is best done with the teacher
- engages students in the classroom with projects and application
- moves the lecture session out of the classroom
- student's own pace

THE RESULTS

BEFORE THE FLIP



AFTER THE FLIP



Enhancement

Substitution

Technology acts as a direct tool substitute with no functional change.

Enhancement

Augmentation

Technology acts as a direct tool substitute with functional improvements.

Transformation

Modification

Technology allows for significant task redesign.

Redefinition

Technology allows creation of new task , previously inconceivable.

Model by Ruben Puentedura

Questions?

