

# Using Web Tools and Apps to Support Project Based Learning



Presenters:  
Megan Sullivan  
Ricky Tippett



# A little about ourselves...

## Megan Sullivan



[Become a Cartoon!](#)

- This is my eighth year teaching in the Asperger's Program at Tilden Middle School.
- I teach English, science, social skills and resource.
- I became interested in using technology to support teaching after I taught Lights, Camera Literacy!

# A little about ourselves...

Ricky Tippett



- I am a Paraeducator at Tilden Middle School
- This is my sixth year working in MCPS
- I have worked in the Learning For Independence (LFI) and Asperger Programs

# Participant Introduction

- Create a group resume on a google form. Just follow the link below and type you answers for the group. Submit when you are finished.
- [Google Form Link](#)
- Possible resume items
  - Educational background
  - Knowledge about course content
  - Total years of teaching related experience
  - Positions held/degrees earned
  - Professional skills
  - Strength/talents/ interests, multiple intelligence preferences
  - Accomplishments and awards, publications

# Why do we use web tools for Project Based Learning?



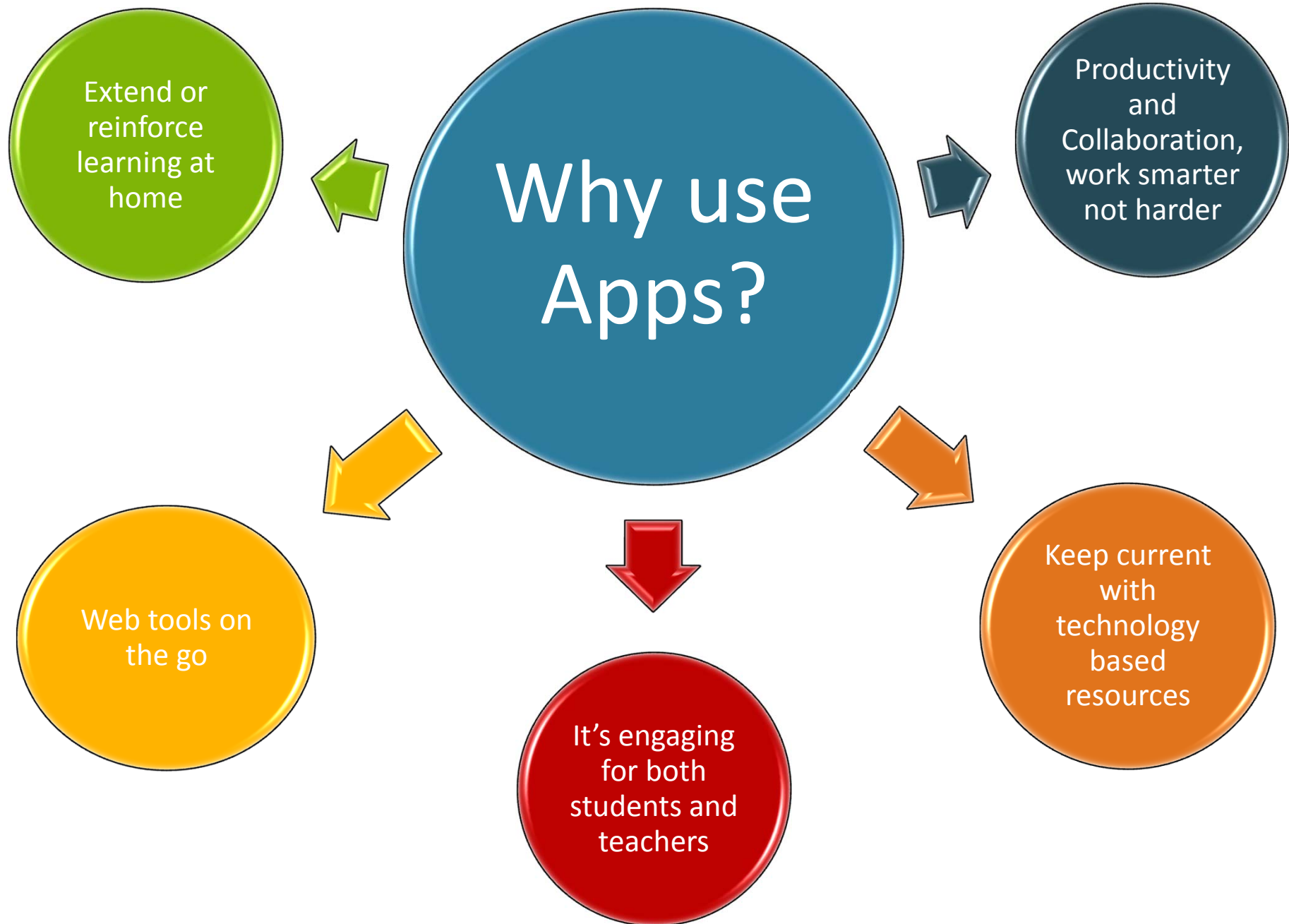
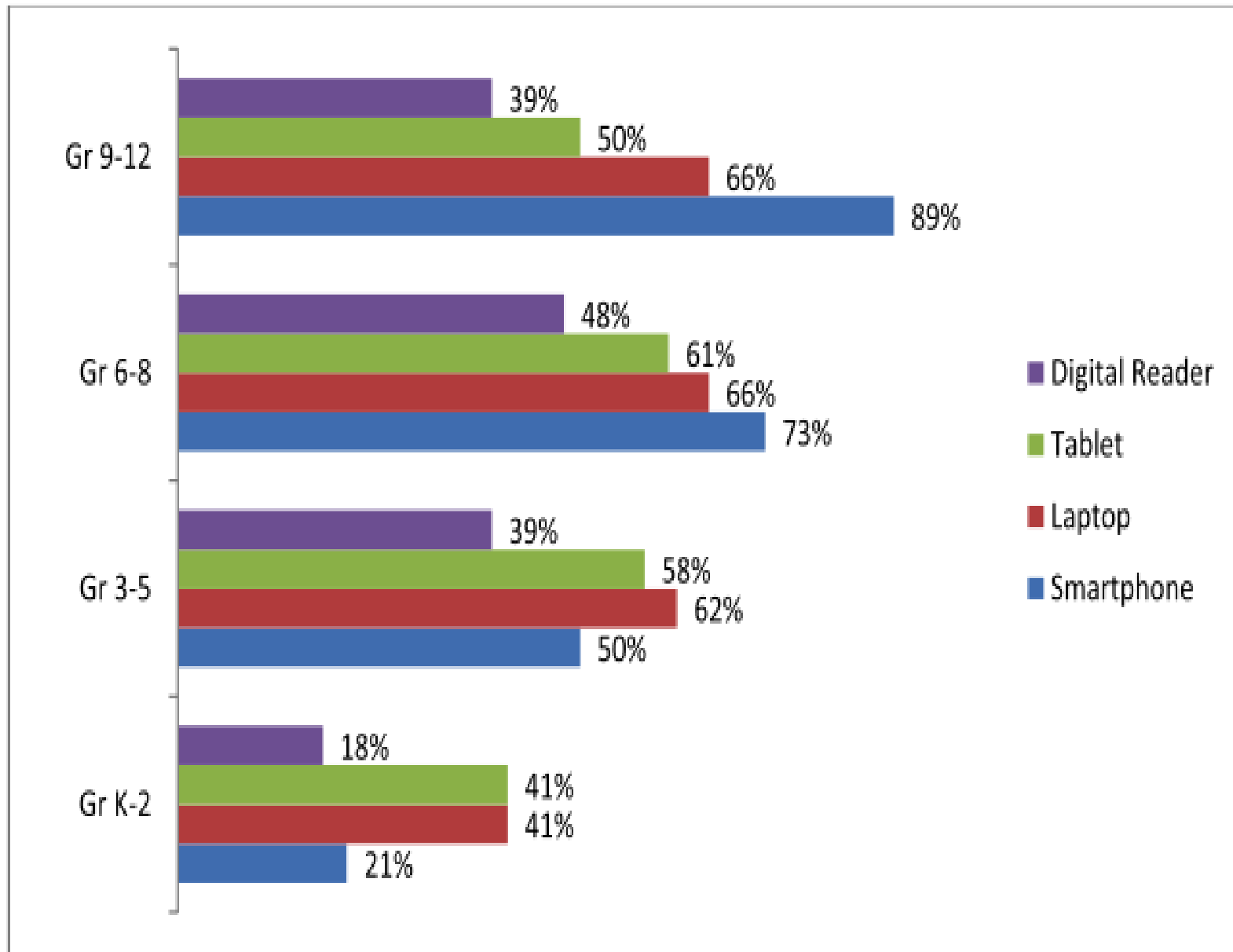


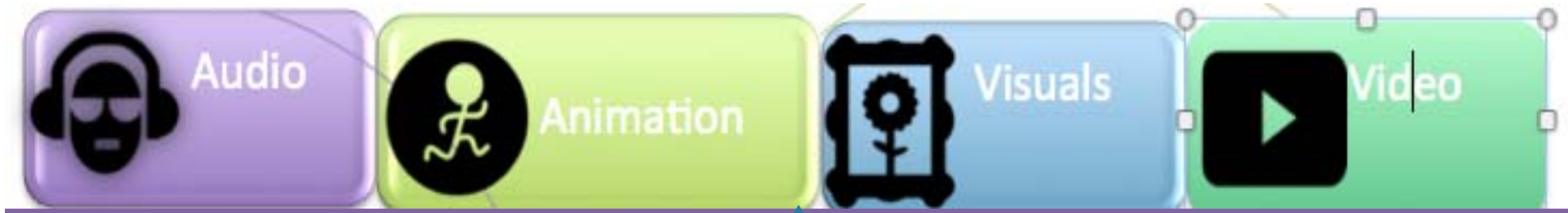
Chart 1: K-12 Students' Personal Access to Mobile Devices



# Poll: How do you currently offer choice in your classroom?

|  |  |   |
|--|--|---|
| <p><b>Verbal/Linguistic<br/>(Word Smart)</b></p> <p>Choose an Artist.<br/>Write a presentation on the life of this artist.<br/>Option: Present your presentation to the class.</p>   | <p><b>Logical/Mathematical<br/>(Math Smart)</b></p> <p>Research the Op Art Period.<br/>Create an Optical Illusion on paper or using Adobe Photoshop.<br/>Option: Create a String Art Project</p>   | <p><b>Intrapersonal<br/>(Self Smart)</b></p> <p>Choose your favorite artist or art period. Write a self reflection paper supporting why the artist or art period is your favorite.<br/>Option: Compare and Contrast two of your favorite artist or art periods.</p> |
| <p><b>Interpersonal<br/>(People Smart)</b></p> <p>With one partner, choose an artist or art period that you both like. Create a collaborative work of art in the style of artist or art period you both choose.<br/>Option: Present your collaborative work of art to the class.</p> | <p><b>ActivInspire Presentation<br/>(Computer Smart)</b></p> <p>Create an art history flipchart using ActivInspire. Choose an artist, your favorite work of art they created, and write two paragraphs describing the art and artist.<br/>Option: Present your Flipchart to the class.</p> | <p><b>Musical/Rhythmic<br/>(Music Smart)</b></p> <p>Write a song, chant or rap about an artist or art period.<br/>Option: Present the song, chat or rap to the class.</p>   |
| <p><b>Visual/Spatial<br/>(Art &amp; Space Smart)</b></p> <p>Recreate a piece of art in the style of an artist or art period.<br/>Option: Present your art to the class and explain how your art represents the artist or art period.</p>   | <p><b>Bodily/Kinesthetic<br/>(Body Smart)</b></p> <p>Research an artist or art period. In partners or small groups, write a play about the artist or art period.<br/>Option: Record your play before or after school or present live to the class.</p>                                     | <p><b>Naturalist<br/>(Nature Smart)</b></p> <p>Choose an artist whose art represents your favorite part of nature. Create a piece of art in the style of this artist.<br/>Option: Present your art to the class and describe why you choose this artist.</p>        |





Enhancing a project or using multimedia to present information.

**UDL: MULTIPLE MEANS OF ENGAGEMENT**

Participating in an interactive project or environment

Creating an online project to present or share with others.





# WEB TOOLS THAT SUPPORT PBL CURRICULUM STANDARDS

- **Wordle**: Present an artistic representation of a poem.
- **ThingLink**: Create a visual presentation of a contemporary leader's accomplishments.
- **GoAnimate**: Describe how a particular story or dramatic plot unfolds/  
Write arguments to support claims.
- **Infogram**: Create an original work that presents or supports an argument.
- **Google Drive**: Investigate the relationships between force, motion and acceleration/Use random sampling to draw inferences about a population.
- **Minecraft/Google Sketch-Up**: Conduct short as well as more sustained research projects based on focused questions.

# WEB TOOL: INFOGRAM

## NO MORE HOMEWORK

✕ The average hours per week a child spends on homework=6.8

There should be a balance between homework and free time.--Ms. Sullivan

### DAYS SPENT ON HOMEWORK



Less Than 1 Day 1-2 Days 3-4 Days More than 5 Days

# WEB TOOL: THE NOUN PROJECT

[Icons](#) [Collections](#)

Results for 'climate-change'





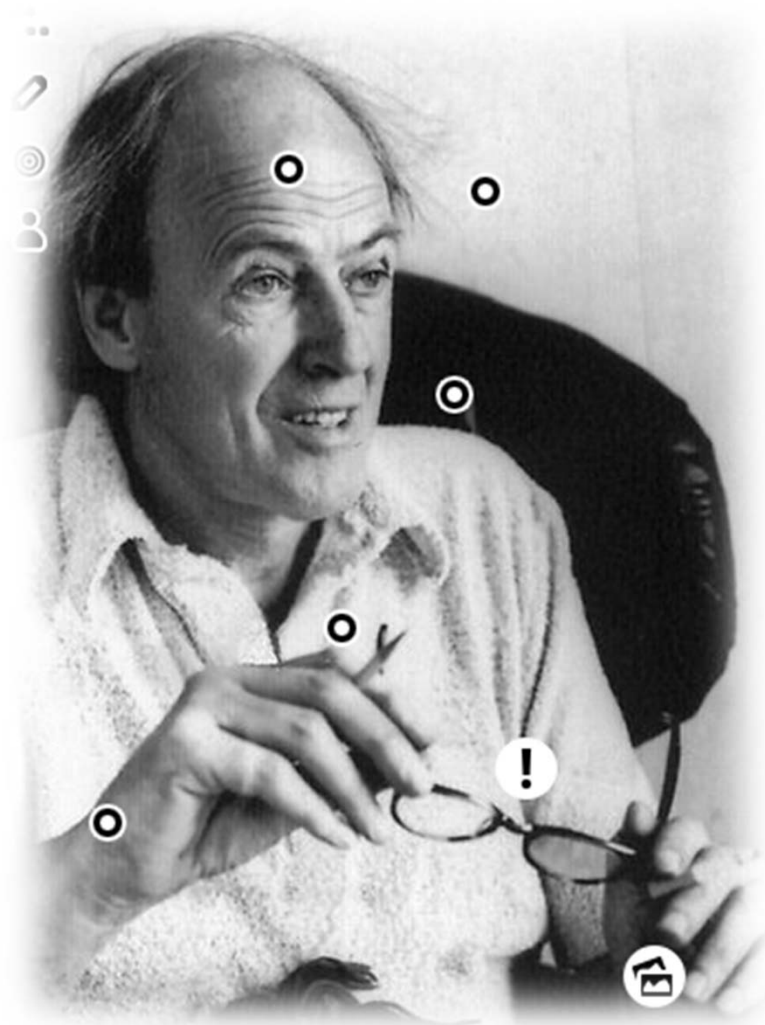


# WEB TOOL: GOANIMATE



Teacher Example

# WEB TOOL: THINGLINK



# WEB TOOL: GOOGLE DRIVE

## Communication Survey

Your name

What do you prefer to be called.

How do you prefer to receive communication?

We can't promise we will always communicate in one particular way, but we will take your preferences into account.

| Definition (blue)  | Newton's 1 <sup>st</sup> Law States:<br>(PH: 48-49, GF: 52-53)<br>An object in motion tends to remain in motion will stay in motion and a body at rest to remain at rest unless acted upon by an unbalanced outside force. | Newton's 2nd Law States:<br>(PH: 52-54, GF: 52-53)<br>The force of which an object moves is equal to its <u>mas</u> multiplied its acceleration.<br>F=MA | Newton's 3 <sup>rd</sup> Law States:<br>(PH: 64-6.t6, GF: 54-55)<br>For every action there is an equal and opposite reaction. |
|--------------------|--|--|---|
| Example 1 (red)    | a cup on top of a car will continue to move after the car stops  | if you kick a soccer ball it will move in the direction that it has been kicked  | Tatiana runs while walking her dog. Her feet push down on the ground, the ground pushes back up on her feet.                  |
| Example 2 (green)  | a book bag left on your kitchen table is there in the morning  | if a cart with groceries has more mass, it will be harder to push  | a squid propelling water. Water pushes out (Action), Squid moves forward (Reaction)   |
| Example 3 (purple) | when you are driving in a car you won't go through the window if the car stops <u>suddently</u> because <u>seat bealt</u> is the outside force that stops you.   | A jar of pennies will accelerate more slowly than a jar of feathers.   | Rocket fuel pushes down on the ground (Action), the rocket moves up into the sky (Reaction).                                  |



# WEB TOOL: SKETCH UP



# Additional PBL Tools



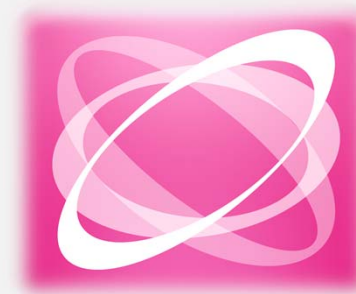
MindNode allows you to organize your brainstorming ideas.



Voicethread allows you to share and discuss media for collaboration.



Prezi-allows you to create zooming presentations.



Mindmeister allows you to organize your brainstorming ideas, for free!

# Additional PBL Tools



Dipity allows you to create timelines



Animation Desk allows you to create still-motion animations



Animoto allows you to create slideshows with music



Make Beliefs Comix allows you to create comic strips

# Megan's Apps that Support PBL



Soundnote (\$) - SoundNote tracks what you type and draw while recording audio.



GoodReader/Topnote (free) - Allow you to read and take notes on any PDF document.



Dropbox/Memory stick (free) - Free service that lets you bring your photos, docs, and videos anywhere and share them easily.



Paper53 (free) - Create beautiful notes.



VoiceDream (\$) - Text to speech reader.

# Ricky's Apps that Support PBL



The Dictionary app provides definitions and synonyms from the New Oxford American Dictionary, 3rd Edition and Oxford American Writer's Thesaurus, 2nd Edition.



Converter Plus is a unit converter with the most extensive list of currencies and units in hundreds of categories.



Evernote archives text, full webpages or webpage excerpts, photographs, voice memos, and handwritten ink notes. Other similar apps include Diigo and LiveBinder.



iTranslate can translate single words, phrases, and audio into dozens of languages used around the world.

# How Educators are using Web Tools and Apps

- **Accessibility**
  - **Education extends beyond the classroom into homes or on the go.**
- Reference
  - Faster information flow at the click of a button/tap of a finger.
- **Productivity**
  - **Technology offers more creative ways for students to receive and present information.**
- Collaboration
  - The use of social media allows students and teachers to stay connected 24/7.
- Language development
  - Diction and translation apps enable a more diverse population to communicate effectively.
- Subject specific learning (English language arts, science, history, geography, math)
  - Subject based apps offer more in-depth knowledge of specific classes.
- **Art/Music/Creativity/Video**
  - **Creativity based apps off students more flexibility in expressing their own intellect.**

Thoughts on using technology in the classroom...

[Riding the Wave](#)

[Technology Changed Learning](#)

[Now is the Time](#)

Educational App Powerhouses...

[Apple Education](#)

[Google Education](#)