



Engage Students with Tech

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Goals

- Show how technology can be used to engage students through various means:
 - Research
 - Online collaboration
 - Creating Content
 - Coding
 - And much more

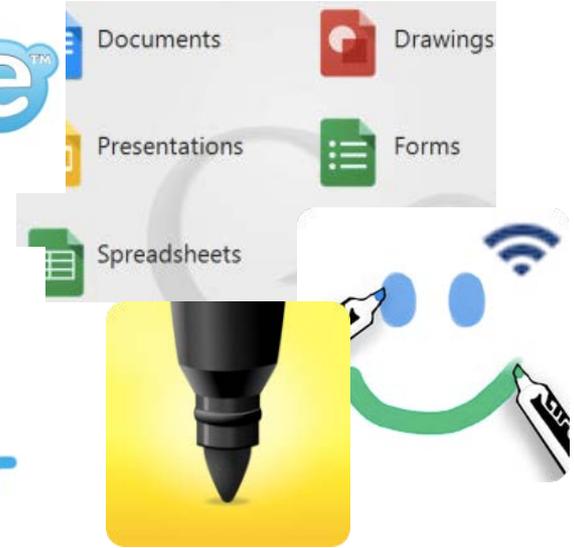
Online Research

- Web Searches
- Dictionary/Thesaurus
- Encyclopedias
- Google Earth
- Smithsonian and other museums
- Khan Academy and other educational videos



Online Collaboration

- Online Docs
- Video Conversations
- Social Media Conversations
- Collaboration apps
 - Smartboard Lite
 - iBrainstorm



Content Creation

- Blogging
- YouTube Channel
- Creation Apps
- Wikispaces
- Podcasting
- Websites



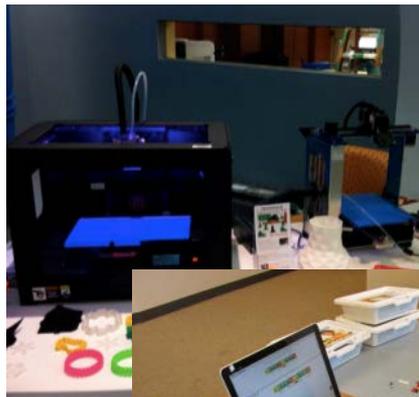
Coding

- Elementary
 - Tablet apps
 - Code.org
 - Scratch.mit.edu
- Middle
 - Tablet apps
 - Code.org
 - Scratch.mit.edu
 - HTML and more
- High
 - Code.org
 - Python, Java
 - HTML, CSS, Javascript



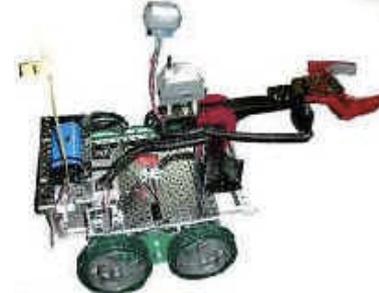
Maker Space

- A Makerspace is about making creative people
- Products
 - 3D Printer
 - Lego Bricks
 - Little Bits
 - Raspberry Pi/Arduino
 - Robotics
 - Electronics
 - Crafts
 - Woodworking



Robotics

- Play-I Dash & Dot
- Sphero
- Lego
- Vex Robotics
- Botball



Educational Gaming 1

- MinecraftEDU
 - Minecraft with special controls for teachers
 - Private server/hosted server
 - Teacher control
 - Minecraftedu.com



Educational Gaming 2

- KerbalEDU
 - Mission library by age and subject
 - Real world physics
 - Engineering skills
 - Learn by mistake
 - Mission by NASA



The screenshot shows the KerbalEdu Mission Library interface. At the top, there is a navigation bar with "Mission Library", "Mission Editor", "Publish Mission", "My Profile", and "Logout". Below this is a table of filters for "Subject", "Age Level", "Mission Type", and "Includes lesson plan".

Subject	Age Level	Mission Type	Includes lesson plan
<input checked="" type="checkbox"/> Math	<input type="checkbox"/> 5-6	<input type="checkbox"/> Sandbox	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Physics	<input type="checkbox"/> 7-9	<input type="checkbox"/> Story	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> Astronomy	<input type="checkbox"/> 10-12	<input checked="" type="checkbox"/> Demonstration	
<input type="checkbox"/> Other science	<input checked="" type="checkbox"/> 12-14	<input checked="" type="checkbox"/> Experiment	
<input checked="" type="checkbox"/> Engineering	<input type="checkbox"/> 14-16	<input type="checkbox"/> Puzzle	
<input type="checkbox"/> Technology	<input type="checkbox"/> 16-18	<input type="checkbox"/> Building	
	<input type="checkbox"/> 18+		

Below the filters, there is a list of mission cards. The first card is titled "Constant Speed and Acceleration" and is published by TeacherGaming LLC. The second card is titled "Gravity: What makes things fall?" and is published by TeacherGaming LLC.

Thank you!

- Join the OSDE EdTech Listserv
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