Technology Curriculum Grid

	4s and Kindergarten	6/7s	8/9s	10s
Skills-focused apps and websites	• Use apps that teach letter formation, sight words, spelling, blends, counting, rhyming, simple addition, finding letters on the keyboard, matching upper case and lower case letters, sorting shapes	• Use apps that assist in the reading of short stories, spelling, and recognizing nouns, verbs, and adjectives • Apps that help organize words and information	• Use the *Dance Mat* website for typing practice	• Use the *Dance Mat* website for typing practice
Digital drawing and writing	• Use the *Doodle Buddy* app to draw and type printable work about word families, patterns, seasons, letters of the week, photo diagrams, addition, bar graphs, and various other topics	• Use the *HyperStudio* program to draw and type work about geometry, bar graphs, symmetry, word art, landfills, farm-to-market phases, etc.	• Use the *HyperStudio* program to create interactive diagrams (e.g., river systems, forest layers), election flyers, brochures, etc. • Using *Google Docs* for word processing	• Use *Google Docs* for word processing
Programming	• Use *Scratch Jr.* to write "scripts"—or directions—that make characters move and change appearance	• Use *Scratch Jr.* to write "scripts"—or directions—that make characters change appearance, move in all directions, rotate, send invisible messages to each other, "loop" parts of their scripts, and change the scene background	• Use *Scratch* to create science simulations, interactive art, and videos games utilizing the coordinate plane, negative numbers, if/then statements, loops, greater than/less than conditions, random numbers, angles, variables, and broadcasts	• Use *Scratch* to create science simulations, interactive art, and videos games utilizing the coordinate plane, negative numbers, if/then statements, loops, greater than/less than conditions, random numbers, angles, variables, and broadcasts
Animation / Video editing	• Use the *Do Ink* app to create simple, slide-by-slide animations (using the "redraw" method)	• Use the *Do Ink* app to create animations using the "re-draw" method, the "copy-erase-redraw" method, and the "copy-select-manipulate" method. • Create simple animations related to social studies or poetry units	• Use the *Do Ink* app to create animations using the "re-draw" method, the "copy-erase-redraw" method, and the "copy-select-manipulate" method • Create a medium-length animation (past topics have included immigration, Mannahatta, how-tos, and classroom expectations) • Import the animation into the *iMovie* app to add sound and make additional edits	• Using *Do Ink* and working in small groups, plan and create a long animation that is a modern re-telling of a Greek myth • Import the animation into the *iMovie* app to add sound and make additional edits

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3d design	• Use the iPad app *Blokify* to create simple 3D designs (e.g., structures in a park or a neighborhood)	• Use *TinkerCad.com* to create simple 3D designs about transportation or buildings.	• Experiment with *TinkerCad.com* to create open-ended designs	• Use *TinkerCad.com* or *Google SketchUp* to replicate paper towers using precise digital measurements • Design Greek temples • Use the 3D printer to print students work
Robotics and maker-projects	• N/A	• Use *Lego Wedo* to build and program various robots according to written directions	• Use *Lego Wedo* to build and program various robots according to written directions • Combine *Lego Wedo* with the *Makey Makey* device to create customized projects	• <u>In science class</u>: Use the engineering design process and *Lego Mindstorms* to create Mars Rovers • Combine *Lego Wedo* with the *Makey Makey* device to create customized projects
Survey design and data analysis	• N/A	• Take the surveys designed by the older grades and discuss the results	• Design surveys using *Google Drive*. Think of questions that are age-appropriate and capable of generating interesting user data	• Design survey using *Google Drive*. Think of questions that are age-appropriate and capable of generating interesting user data
Digital citizenship / Research	• N/A	• Use the *Barefoot Atlas* app to find interesting topics for further research • Select a favorite topic discovered from *Barefoot Atlas*. Use a website chosen by the teacher to write down more facts about that topic • Type the facts learned about the favorite topic into *HyperStudio*. Design a background for the facts and record the students reading facts in front of a green screen	• Learn how to research using the library and the Internet. Learn about bias, credibility, and paraphrasing • Create a "Choose-your-own-adventure" story in *HyperStudio* using the information you researched that is connected to the Lenape or immigration units	• Use lessons from *Common Sense Media* to learn about digital citizenship (taking care of yourself and others online). Key topics: safe vs. risky information sharing, identity theft and phishing, digital footprints, and cyberbullying

Additional technology projects not included above:

claymation movies · newscasts · public service announcements · movies with acting