



# Makerspace

## T E C H N O L O G Y



### *a resource guide for teachers*

Tech	Description	Video Link
Coding	Use Code.org on iPad/Chromebook to code programs/games. Tiered by grade level, students can use Blockly or Javascript to code.	<a href="https://code.org/hourofcode/overview">https://code.org/hourofcode/overview</a>
Osmo	Educational gaming accessory used on iPad for physical play, coding, & problem solving.	<a href="https://www.youtube.com/watch?v=CbwIJMz9PAQ">https://www.youtube.com/watch?v=CbwIJMz9PAQ</a>
Dash & Dot	Interactive robots controlled by 4 iPad apps that function by block coding challenges.	<a href="https://www.youtube.com/watch?v=LA9py48X6_o">https://www.youtube.com/watch?v=LA9py48X6_o</a>
3D Printer	Follow the guidebook and use the 3D printer laptop in the library to print 3D objects from thingiverse.com using the Flash Print program.	<a href="https://www.youtube.com/watch?v=xbfZVz6CM5E">https://www.youtube.com/watch?v=xbfZVz6CM5E</a>
3D Doodler	A pen used to 3D design structures by heating plastic that cools instantly into solid formation.	<a href="https://www.youtube.com/watch?v=w0s9tWLHJ24">https://www.youtube.com/watch?v=w0s9tWLHJ24</a>
Snap Circuits	Follow kid-friendly picture directions to manipulate circuits and create projects with various functions. Hundreds of puzzles are included!	<a href="https://www.youtube.com/watch?v=xDpLvUghfBg">https://www.youtube.com/watch?v=xDpLvUghfBg</a>
Cubelets	Blocks that snap together via magnetic faces in different ways to build robots. Every unique arrangement creates a new robot with different behaviors!	<a href="https://www.youtube.com/watch?v=4EDsLayRKQA">https://www.youtube.com/watch?v=4EDsLayRKQA</a>
LEGO WeDo	Robotics hardware and software platform that uses an iPad & LEGO to connect to a story, construct a model, contemplate its function, and continue improving the design.	<a href="https://www.youtube.com/watch?v=bChj1Tx4SGc">https://www.youtube.com/watch?v=bChj1Tx4SGc</a>
Makey Makey	Electronic invention kit that allows users to connect everyday objects to computer programs using a circuit board, alligator clips, and a USB cable.	<a href="https://www.youtube.com/watch?v=rFQqh7iCcOU">https://www.youtube.com/watch?v=rFQqh7iCcOU</a>
Sphero	A spherical robot capable of rolling, changing colors & running programs using an iPad.	<a href="https://www.youtube.com/watch?v=1S5IUDvlu3A">https://www.youtube.com/watch?v=1S5IUDvlu3A</a>
Ozobots	Small robot that blends physical and digital worlds while teaching kids programming. It can identify lines, colors, and codes both digitally (iPad) and physically (paper).	<a href="https://www.youtube.com/watch?v=zm_H8HXWFZ4">https://www.youtube.com/watch?v=zm_H8HXWFZ4</a>