



# Maker Playground Equipment

Tool	Description	Cost	Additional Information
Google Cardboard	Google Cardboard brings immersive experiences to everyone in a simple and affordable way. With Google Cardboard, you're just one step away from experiencing virtual reality on your smartphone.	Search Google Cardboard on Amazon.com Prices range from \$5 to \$20	Google Cardboard apps are free (StreetView, Google Cardboard, Discovery VR, YouTube, etc.)
Makey Makey	An invention kit for the 21st century. Turn everyday objects into touchpads and combine them with the internet. It's a simple invention kit for beginners and experts making art, engineering, and everything in between.	MakeyMakey on Amazon.com, \$49.99	<a href="http://www.makeymakey.com/">http://www.makeymakey.com/</a> MakeyMakey games are free, works with Windows, Mac, and Chromebooks
Augmented Reality Anatomy 4D Elements 4D	Augmented reality (AR) is a live direct or indirect view of a physical, real-world environment whose elements are augmented (or supplemented) by computer-generated sensory input such as sound, video, graphics or GPS data.	FREE	You are able to print off the cards and cubes from website.  ★Free apps with printable cards: - Quiver (coloring pages) - Spacecraft 3D

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Sphero Programming	Sphero is a robotic ball gaming device that you control with a tilt, touch, or swing of your smartphone or tablet.	\$99.99	<a href="http://www.Sphero.com/">http://www.Sphero.com/</a> Sphero apps are free and available for both iOS and Android.
AuraSma	Turn everyday objects, images, and places into new, interactive opportunities to engage the audience through striking graphics, animation, video, audio, and 3D content.	FREE	<a href="https://studio.auraSma.com/login">https://studio.auraSma.com/login</a> Available on Nexus and iPad.
Code.org Online Coding and Critical Thinking	Code.org® is a non-profit dedicated to expanding access to computer science, and increasing participation by women and underrepresented students of color. Code.org's vision is that every student in every school should have the opportunity to learn computer science. They believe computer science should be part of core curriculum, alongside other courses such as biology, chemistry or algebra.	FREE	

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OSmo iPad Learning and Critical Thinking	OSmo's games involve both digital and hands-on tools. The three companion apps-Tangram, Words, and Newton-offer a range of experiences, from peacefully assembling tangram puzzles with wooden pieces, to flinging letter tiles onto the table to spell a word faster than your friend, to dreaming up solutions to a physics-based puzzler by drawing on paper or building contraptions with everyday items.	\$79.99	PlayOSmo.com iPad Only, Apps are free, but must purchase stand, mirror, and learning resources
Green Screen iPad App (DoInk) Video Creation	Using the Green Screen App, users can record or photograph themselves in any location!. Set up a simple fabric backdrop or use a wall-- the App allows users to change the chromakey to match a wide variety of colors-- no actual "green screen" required.	\$2.99 for App  \$119.90 for LimoStudio (includes green screen backdrop with stand, 2 photography lights with umbrellas)	<a href="http://amzn.com/B005D10WLE">http://amzn.com/B005D10WLE</a> for Limo Studio products
Bloxels	Bloxels is a video game building tool that uses a game board and small colored cubes used to build characters, backgrounds and more. After building, students take a picture of the board using the Bloxels app and then can go in and make further modifications before actually being able to play their game. There are also backgrounds pre-made in the app to use in creation.	FREE app  \$49.95 per set (classroom sets of 5, 10, and 20 boards also available at a discount)	<a href="http://www.bloxelsbuilder.com/">http://www.bloxelsbuilder.com/</a>  App available for iPad, Android, and Kindle Fire

Bitsbox	Bitsbox works like a magazine subscription. Each month, subscribers receive a book that teaches coding through games. Students need to use a computer (not a tablet or phone) to code the games. Subscription includes small prizes, too.	Price varies (can subscribe for 1, 3, or 12 months in print or digital formats; can also purchase a classroom set)  3 month individual print subscription is \$120	<a href="http://www.bitsbox.com">www.bitsbox.com</a>
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