STITCHING the Loop Web-Based Apps Comparison Chart

	ARDUINO CREATE	ARDUINO CREATE FOR EDUCATION	CODEBENDER EDU	CODEBENDER INDIVIDUAL	MAKECODE
BROWSER	Chrome	Chrome	Chrome	Chrome	Web App, any modern browser
PERMISSIONS NEEDED TO INSTALL	Administrator	Administrator	Administrator	Administrator	Administrator
SAVES CODE?	Yes		No	No	Yes but not individual accounts, just all together on a specific browser
NEEDS INTERNET ACCESS?	Required	Required	Required	Required	Required
COST	Free	• $0.40/student per month, up to 20 students • $0.30/student per month, up to 200 students • $0.20/student per month, up to 1,000 students	• $10/month, 20 students, limited boards • $20/month, 50 students • $50/month, whole school license	$10/month	
PROS	• Saves to the cloud • Most current version includes all libraries	• Up to a year access • 3 educators per toolbox • Option to not use email	Works with Chromebooks	Available after course ends	• Live changes with no loading • Lots of tutorials available for students, backed by Microsoft and Adafruit • Block coding or Javascript • Works in the browser and offline • There is a Windows 10 store app available
CONS	Needs individual login per student	• Max of 30 students per toolbox • Credit card required for payment			• MakeCode requires the Circuit Playground Express. These are different from the ones in the student kits and cost $5 more. • Must be plugged in to work • Need to pre-load Circuit Playground Express with a program like Arduino Firmata Library/Protocol that handles the live connection and processes all code instantly to the Circuit Playground Express