

littleBits STEAM Student Set project details

Project Name	Page	Time	Difficulty	Supplies
Self-Driving Vehicle	p. 32-38	30 mins	1 / 5	Rubber Band / Tape

Start by building the circuit cruiser, a vehicle that gets around on two DC motors. Add extra features to this lean, mean, mobile machine. Use it to deliver school supplies to your friends, help your teacher pass out papers, or wake up your sleeping classmate.

Art Machine	p. 39-45	30 mins	2 / 5	Markers Drawing Surface Rubber Band / Masking Tape
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Start by creating a doodle wizard - a bot made with DC motors, and a pulse that dances, wiggles, and draws up a storm. Add your own artistic flair by changing up some of the Bits and materials to create unique masterpieces.

Throwing Arm	p. 46-52	1 Hour	2 / 5	Philips Head Screwdriver Scissors Rubber Band Paper Cups Masking Tape
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Start by building a launcher that flings projectiles with a servo at the press of a button. Set up a tower of cups and try to knock them over. Then modify your launcher to make it even more accurate, powerful, or speedy. Challenge your friends to see who can knock over the most cups.

Security Device	p. 53-58	1 Hour	3 / 5	Backpack
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Start by making the backpack alarm with the light sensor, pulse, and buzzer. This light-sensitive alarm will alert you if someone is snooping around your stuff. Customize your alarm for different places around the school.