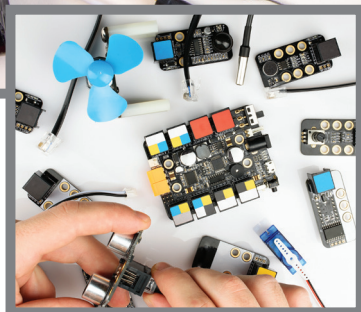# Build, Make, Create, Innovate

Inside: The Ultimate Guide for Makerspace Supplies

Makerspace: Where STEM and Imagination Meet.

Use Ward's equipment, activities, and supplies to create a makerspace that helps students explore ideas, solve problems, and collaborate with others. Our portfolio of budget-friendly products will help inspire and support the ideal makerspace for your classroom.

What is a Makerspace?

A makerspace is an open and collaborative workspace with hands-on building materials, tools, equipment, and technology to helps students explore, create new things, and solve real-world problems.

Makerspaces allow students to imagine new possibilities—and provide the tools and resources that bring their vision to life as they engage in science, engineering, design, and entrepreneurship.

What Can Students Do in a Makerspace?

- Build a prototype
- Design a faster vehicle
- Engineer a stronger house
- Experiment with robotics
- Learn to code

- Participate in a design challenge
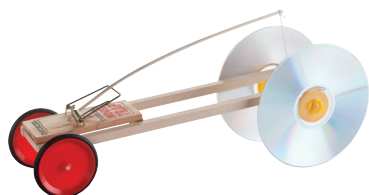- Create new ways to solve everyday problems
- Have fun!

We've Got STEM Products Down to a Science.

Check out our newest and most popular products and resources at **wardsci.com/stem_resources**
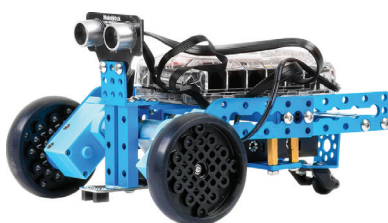
ward's science
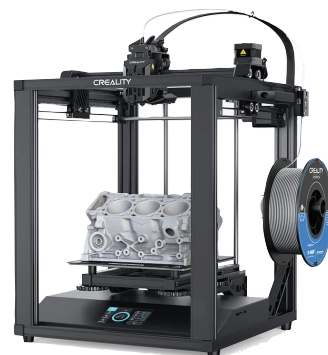
Create Your Makerspace

What Do I Need to Get Started?

Ward's Vehicle Kit

MakeBlock mBot Ranger Robot Kit

Creality Ender-5 Pro

Here's what we recommend:

Design & Build

Cat. No.	Description
Consumables	
470149-902	Duct Tape
470105-594	Masking Tape
470093-352	Paperclips, 40 pack
470105-858	Premium Dacron String, 50yd
470003-392	Cotton String, 4-ply, 200 ft.
470149-666	Craft Sticks, 1000 pack
470002-838	Rubber Bands #52
470132-511	DC Motors, 20 pack

Cat. No.	Description
Construction Tools & Storage	
470016-774	Glue Gun
470228-940	Four Glue Gun Holder
470016-334	4" Scissors
470132-522	TeacherGeek Easy Engineering Tool Set
470229-114	TeacherGeek Soldering Package
470228-922	Lil' Termite Sander
470093-696	Heat Gun
470312-806	Mobile Maker Tool Kit
470327-750	TeacherGeek Makercart 2.0 Blueberry
470312-804	Makers Steam Cart
470317-022	26" Kiddiecart, 4 Drawer Cube

3D Printers, Pens, & Laser Cutters

Cat. No.	Description
3D Printers	
470350-764	Creality Ender-3 V2
470350-742	Creality Ender-5 Pro
470350-752	Flashforge Adventurer 4
470337-091	Dremel Digilab 3D45
470347-434	InkSmith Makerforge
470330-318	Cubicon Single Plus

Cat. No.	Description
3D Printing Pens	
470354-062	3Doodler Start+ Essentials Pen Set
470354-040	3Doodler Create+ Learning Pack (12 pens)
470354-042	3Doodler Pro+ 3D Printing Pen Set
470354-036	Pika3D Pro 3D Printing Pen Set

Cat. No.	Description
Cutting Machines	
470348-370	Mako 60W Laser Cutter
470354-300	Cricut Maker 3
470354-296	Cricut Joy Xtra

Edison Educational Robot

TeacherGeek Soldering Package

InkSmith Climate Action Kit

Cubelets Clever Constructors Pack

No two makerspaces are alike, and you don't need a huge budget to begin!

Whether you start small with a few simple tools and construction supplies, or go big with high-tech equipment and technology, we've made it easy to create an engaging space for discovery—and let students' imaginations do the rest.

Pika3D Pro 3D Printing Pen Set

Solar Electric House Kit

Robotics & Coding

Cat. No.	Description
Cubelets	
470352-686	Cubelets Boundless Builders Pack
470352-684	Cubelets Motivated Makers Pack
470352-678	Cubelets Clever Constructors Pack
470352-682	Cubelets Intrepid Inventors Pack
470348-170	Cubelets Activity Cards

Cat. No.	Description
Matatalab	
470352-604	Matatalab Coding Set
470352-624	Matatalab Coding Set Pro
470352-600	Matatalab Tale Bot Pro
470352-594	Tale Bot Activity Box

Cat. No.	Description
Crazy Circuits	
470348-946	Crazy Circuits Bit Board Rover
470348-942	Crazy Cicuits: Programming 101
470348-926	Bit Board Classroom Set (with micro:bit)
470348-930	Crazy Circuits Coding Kit

Cat. No.	Description
Advanced Robot Systems	
470352-616	Edison Educational Robot
470331-200	InkSmith k8 Robot
470350-736	Parallax cyber:bot
470227-272	Parallax Shield Bot w/ Arduino
470324-122	MakeBlock mBot-S Explorer Kits
470324-126	MakeBlock mBot Ranger Robot Kit
470324-128	MakeBlock mBot Ultimate 2.0 Robot Kit

Microprocessors

Cat. No.	Description
micro:bit	
470350-740	micro:bit V2 Single Board
470350-738	micro:bit V2 Go Bundle
470350-732	micro:bit V2 Club Bundle (10 pack)

Cat. No.	Description
Raspberry Pi	
470354-010	Raspberry Pi 4 Model B+ 4GB
470354-022	Raspberry Pi 4 Model B+ 8GB
470354-000	Raspberry Pi 4 Compete Starter Kit, white
470354-012	Raspberry Pi 4 Compete Starter Kit, black
470354-020	16GB microSD card with Raspberry Pi OS
470354-024	USB-C Power Cord for Raspberry Pi 4

Cat. No.	Description
Arduino	
470237-732	Arduino Uno Development Board
470237-734	Arduino Mega Development Board
470237-740	Arduino Due Development Board
470237-742	Arduino Leonardo Development Board
470311-284	Discover Electronics Arduino Bundle

ward's science+

Start Small, Think BIG!

Hands-On Science & Technology Kits

Cat. No.	Description
Engineering Kits	
470218-422	Ward's Vehicle Kit
470347-890	Ward's Engage Air-Propelled Rovers
470132-386	TeacherGeek Advanced Hydraulic Arm
470132-362	TeacherGeek Advanced Rubber Band Racer
470329-182	Innovating Science® Engineer and Explore Materials for Prosthetics

Cat. No.	Description
DIY Electronics Kits	
470311-256	ArduTouch Synth Soldering Kit
470311-292	UV Papertronics Skulls (Pack of 30)
470311-294	Papertronics Lunar Lander (Pack of 30)
470335-816	Solar Bug 2.0 (Pack of 25)
470348-934	Brown Dog Gadgets Wearable Circuits Classroom Pack
470348-938	Brown Dog Gadgets Sewing Circuits Classroom Pack
470234-654	Brown Dog Gadgets Paper Circuits Classroom Pack
470234-646	Brown Dog Gadgets Bristle Bots (Pack of 25)

Cat. No.	Description
Alternative Energy	
470331-198	InkSmith Climate Action Kit – Land
470347-432	InkSmith Climate Action Kit – Combined
470336-366	PicoSolutions Alternative Energy Kit 1
470153-782	Renewable Energy Set
470113-010	KidWind Mini Wind Turbine
470004-312	Solar Electric House Kit

Need more guidance?

Contact the Ward's Science Plus Us Team.
Questions about building your makerspace, or looking for solutions to fit your goals and budget? We'll help you find the right materials and provide technical support.
Email **sciencehelp@vwr.com**.

Don't forget storage solutions!

Use shelves, cubbies, and tubs to help organize supplies and make it easier for students to think about what they want to use. *Find storage solutions for your makerspace at wardsci.com or ask your account manager for details.*

We've Got STEM Products Down to a Science.
Check out our newest and most popular products and resources at wardsci.com/stem_resources