VEX is STEM



VEX® ROBOTICS

Discover Educational Robotics for All Ages

This overview was designed as a brief way to show all current offerings from VEX. With this catalog, our goal is to lead you through a quick, and easy-to-understand experience. A great place to find more starter information is on the VEX Support Page at GetStarted.vex.com

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Welcome to the VEX Continuum

The VEX Continuum enables educators to create a cohesive STEM learning plan for students from primary to secondary school, and beyond. The VEX Continuum is comprised of SIX VEX platforms - VEX 123, VEX GO, VEX IQ, VEX EXP, VEX V5, and VEX V5 Workcell, all of which can be supplemented with VEXcode. This series of VEX platforms is grounded in a continuity of resources, curriculum, and materials, so that teachers and students can build upon their STEM learning from year to year.

This program supports school-wide STEM learning goals through the educational resources provided within and across our platforms. Each of the STEM domains is addressed through curricular activities and resources, like STEM Labs, that are age appropriate, and give teachers and students an opportunity to apply their learning through more complex building and projects as they continue to learn.

For students, the VEX Continuum empowers the practice of learning at a personalized pace. VEX places emphasis on the process of instruction versus the product that is being created. Education is not always straightforward. STEM learning is one way educators can merge gaps between ages. The ability to align curriculum both horizontally and vertically essentially constructs a shared language of STEM amongst both teachers and students - setting up each side for future successes.

If any other questions arise or more data is needed, please feel free to reach out to our Sales Team at *ap-sales@vexrobotics.com*

All associates at VEX Robotics wish to sincerely thank you for contributing to the extraordinary rewards that STEM education brings to everyone involved.



Ages 4+

VEX 123

Coding Starts Early



Ages 8+

VEX GO

STEM Starts Early



Ages 11+

VEX IQ

Applied STEM Learning

Ages 14+

VEX EXP

Real World STEM for Classrooms



Ages 14+

VEX V5

Real World STEM for Competition



Ages 14+

VEX V5 WORKCELL

Workforce Readiness

Professional Development +

Build confidence.
Become inspired.
Interact with experts.

Professional Development, or VEX PD+, is an additional feature created to reshape STEM education from within the classroom, beginning with the educators. PD+ experts help build confidence and inspire through videos, webinars, lesson plans, and feedback.



PD+ includes one year of access to every VEX brand for one user from activation date

Expert-led professional learning is always available





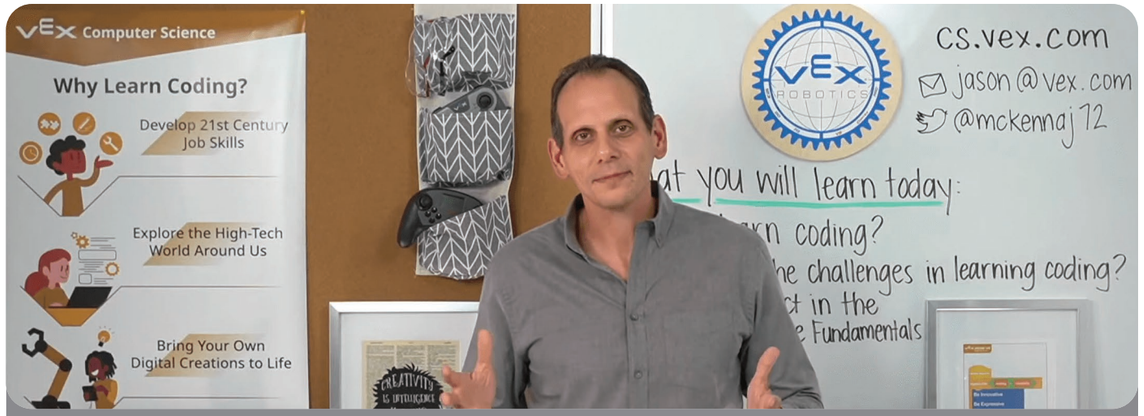




Get Certified

VEX now offers free, online training that helps educators at all different ability levels. Experience fun and engaging lessons while supporting students as they become proficient with the VEX Robotics system.

certifications.vex.com



PD+ Webinar
Evolving Educational STEM Topics


Jason McKenna


Aimee DeFoe


Audra Selkowitz


Alaina Caulkett


Lauren Harter


Olivia Kissel

Connect with PD+ experts on STEM pedagogy
Professional Development that reshapes STEM education



STEM Trends
Insightful Articles on Educational Robotics **pd.vex.com**

STEM Labs



Standards-aligned Educational Curriculum

education.vex.com

STEM Labs have something to offer for everyone. STEM Labs function as “plugin” lessons that can fit into your existing curriculum. Multiple labs can be utilized in sequential order to create a unique, extended learning experience.

STEM Labs promote hands-on learning. Students enjoy hands-on-learning activities that allow them to apply technology, science, math, and engineering skills as they enjoy a 21st-century learning experience.



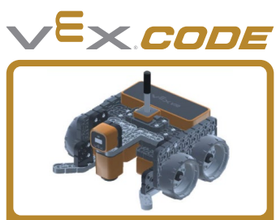
VEX 123 STEM Labs



VEX GO STEM Labs



VEX IQ STEM Labs



Computer Science Courses



VEX EXP STEM Labs

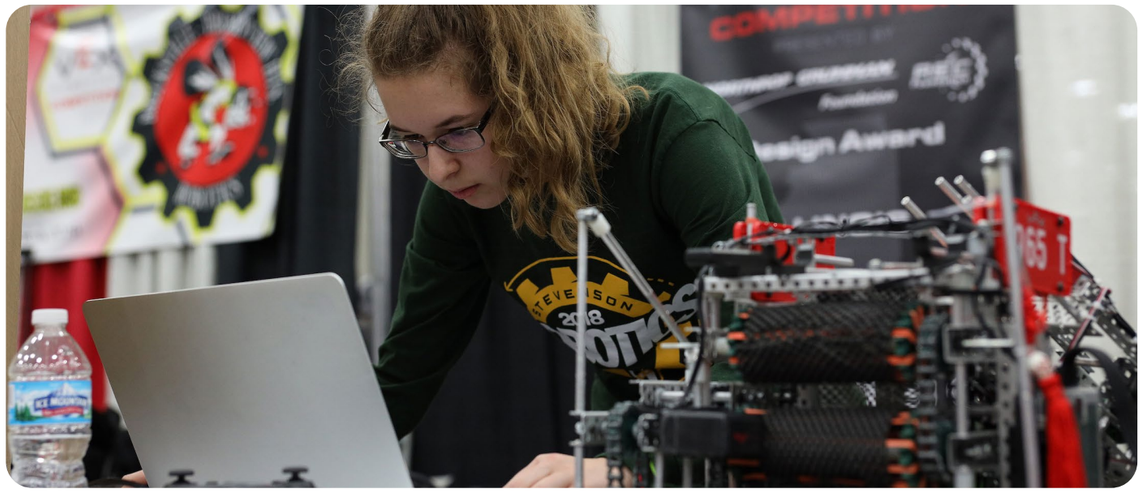


VEX V5 STEM Labs



VEX V5 Workcell STEM Labs

STEM Library



Thousands of articles about VEX and STEM

help.vex.com

The VEX STEM Library houses information about all things VEX. The purpose of the STEM Library is to help VEX users quickly find information about VEX products, services, or topics.

The STEM Library offers self-service support content around multiple topics and themes, including getting started, robot design and engineering, coding tips and techniques, and STEM Fundamentals.

VEXcode



VEXcode meets students at their level

code.vex.com

VEXcode is a coding environment that is suitable for students at all levels. The intuitive layout of VEXcode allows students to get started quickly and easily.

VEXcode is consistent across Blocks and Text, across VEX 123, GO, IQ EXP, and V5. As students progress from primary to secondary school and beyond, they never have to learn a different block, code, or toolbar interface.

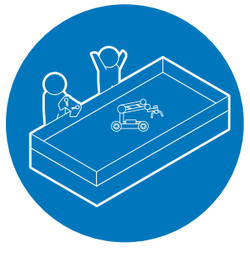


STEM Competitions for All Ages

competition.vex.com

All students are natural scientists and engineers. VEX competitions foster these skills and capitalize on the motivational effects of competitions and robotics to help all students create an identity as a STEM learner. VEX competitions are also a great way to expose students to valuable soft skills like communication, collaboration and time-management in a fun and authentic way.

The VEX Robotics competition prepares students to become future innovators with 95% of participants reporting an increased interest in STEM subject areas and pursuing STEM-related careers. Tournaments are held year-round at the regional, state, and national levels and culminate at the VEX Robotics World Championship each spring!



27,000
Participating Teams



1,000,000
Students Reached Annually



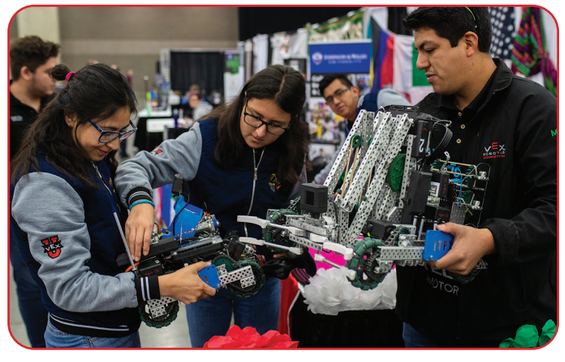
70+
Countries Represented



22,000
Participating Schools

Guinness World Records® holder for the World's Largest Robotics Competition





VEX IQ COMPETITION

Primary and Secondary
up to age 15

VEX ROBOTICS COMPETITION

Secondary and College
up to age 18

VEX 123®

Coding Starts Early for Ages 4+

123.vex.com





Fundamental

Start programming your 123 Robot with just a single touch, no computer needed. Using the VEX Coder, there is also no need for a screen.



Flexible

VEXcode 123 is available for tablets, Chromebooks, Mac and Windows devices. Using Scratch blocks, unlock the full capabilities of your 123 Robot.



Feasible

VEX 123 takes pride in keeping your classroom in mind, with the sheer ease of implementation for maximum engagement.

The Five Pillars of VEX

PD+ Competition VEXcode STEM Labs STEM Library

Single Classroom Robot Kit



Education Kit	248-7621

All-in-one Classroom Solution!



Small Classroom Bundle	6 Education Kits + Extras	12 Students	248-7661
Classroom Bundle	12 Education Kits + Extras	24 Students	248-7848
Large Classroom Bundle	18 Education Kits + Extras	36 Students	248-7849

VEX GO

STEM Starts Early for Ages 8+

go.vex.com





Engaging

VEX GO is a construction system that includes fun, collaborative, hands-on, minds-on activities that encourage all students to participate.



Innovative

VEX GO invents contemporary ways of structure and design by establishing distinctive patterns, colors, and composition techniques.



Accessible

Minimal instructions are needed before students are able to dive straight into the exploration of their VEX GO Kit.

The Five Pillars of VEX

PD+ | Competition | VEXcode | STEM Labs | STEM Library

Single Classroom Robot Kit

Education Kit	269-6705

Four Competitions in One Kit

Competition Kit	269-8115

All-in-one Classroom Solution!



Small Classroom Bundle	5 Education Kits + Extras	10 Students	269-7781
Classroom Bundle	10 Education Kits + Extras	20 Students	269-7780
Large Classroom Bundle	15 Education Kits + Extras	30 Students	269-7782

VEX IQ

Applied STEM Learning for Ages 11+

iq.vex.com





Educate with VEX

The VEX IQ Classroom Bundles include all STEM hardware needed along with curriculum, support, and high-quality professional development offerings for educators.



Mentor a Team

Mentoring a competition robotics team is simple and manageable with VEX IQ kits, support, and many more STEM resources.



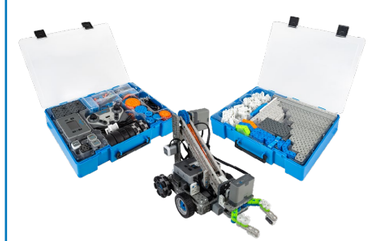
Customize with VEX

Each of the three VEX IQ systems (Education, Classroom, and Competition) offer the same development in both inspiration and ingenuity.

The Five Pillars of VEX

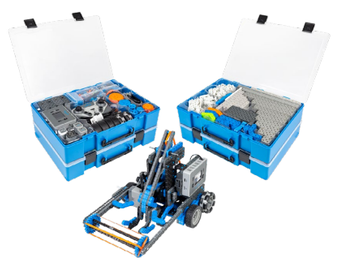
PD+ | Competition | VEXcode | STEM Labs | STEM Library

Single Classroom Robot Kit



Education Kit	228-8899

Single Competition Robot Kit



Competition Kit	228-7980

All-in-one Classroom Solution!



Small Classroom Bundle	5 Education Kits + Extras	10 Students	228-8060
Classroom Bundle	10 Education Kits + Extras	20 Students	228-8246
Large Classroom Bundle	15 Education Kits + Extras	30 Students	228-8247

VEX EXP

Real World STEM for Classrooms for Ages 14+

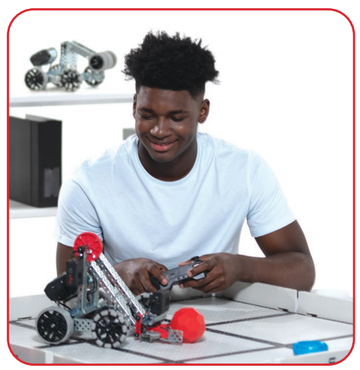
exp.vex.com





Simple

VEX EXP Classroom and Competition Bundles are organized and stocked with everything needed to bring learning to life within the classroom setting.



Flexible

VEX EXP Bundles are easy for any STEM teacher to assemble, and are available in different assortments to fit any classroom layout.



Powerful

Both EXP Bundles and Kits include the extensive value pack consisting of access to STEM Games, STEM Labs, the STEM Library, and coding systems.

The Five Pillars of VEX

PD+ Competition VEXcode STEM Labs STEM Library

Single Classroom Robot Kit



Education Kit	280-7735

All-in-one Classroom Solution!



Small Classroom Bundle	6 Education Kits + Extras	10 Students	280-8224
Classroom Bundle	10 Education Kits + Extras	20 Students	280-8293
Large Classroom Bundle	15 Education Kits + Extras	30 Students	280-8294

VEX V5

Real World STEM for Competitions for Ages 14+

v5.vex.com





Passion

VEX V5 products are adaptable and dynamic, using state-of-the-art advancements to ensure outstanding outcomes with students.



Foundation

Giving students a head start with technical and vocational education and training is crucial, and nurturing their curiosity will continue to benefit them throughout their careers.



Expansion

VEX Robotics Competitions have been proven to be the most invigorating way to ignite a competitive spirit within students, through participation in worldwide events.

The Five Pillars of VEX

PD+ Competition VEXcode STEM Labs STEM Library

New Robotics Students



Classroom Starter Kit	276-7110
Classroom Starter Bundle	276-7170

Advanced Robotics Students



Classroom Super Kit	276-7120
Classroom Super Bundle	276-7180

New Competition Team



Competition Starter Kit	276-7130

Advanced Competition Team



Competition Super Kit	276-7140

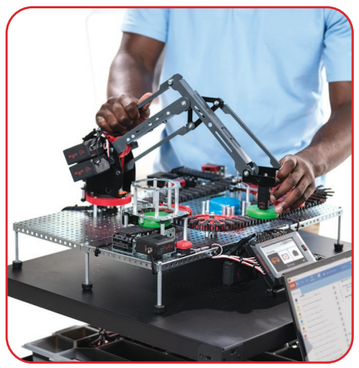
VEX V5

WORKCELL

Workforce Development for Ages 14+

workcell.vex.com





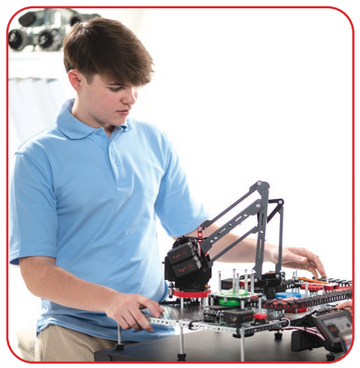
Constructive

The VEX V5 Workcell is a construction system for a 5-axis robotic arm, conveyors and sensors, combined with our proved VEXcode software.



Productive

Workcell introduces students to manufacturing concepts, empowering the manufacturing workforce of the future with a foundation of understanding.



Effective

Together with VEXcode V5, students have the opportunity to develop technical and problem solving skills by building and coding a simulated manufacturing workcell.

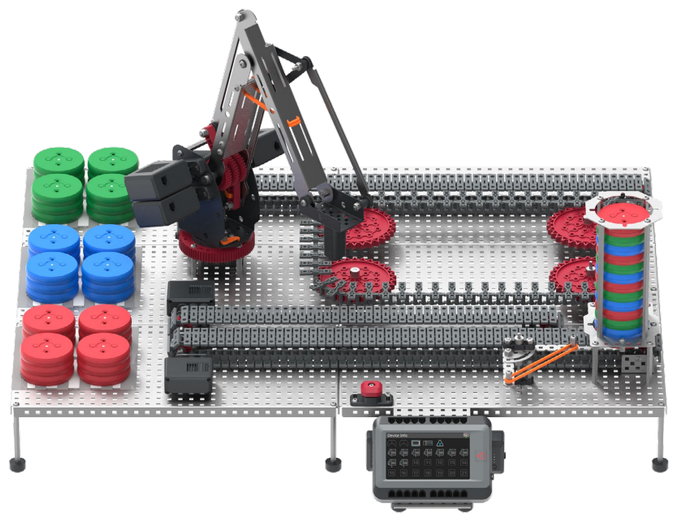
The Five Pillars of VEX

PD+ Competition VEXcode STEM Labs STEM Library

The VEX V5 Workcell Kit provides support fot educators every step of the way

- Includes a complete kit for the Workcell STEM Labs, and the Factory Automation Competition
- Includes competition registration for the first year
- Works with VEXcode programming software
- Designed for groups of 4 students

V5 Workcell Kit



V5 Workcell Kit 276-8054

VEX is STEM



Everything you need is at

GetStarted.VEX.com

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International pricing and availability varies by location.

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