Vex Robotics Design System and Comprehensive Curricula

The **Vex Robotics Design System** can benefit your classroom by giving you the tools you need to engage your students in science, technology, engineering, and math through hands-on, team-oriented activities. This robotics kit is supplemented by standards-based **curricula** developed by the Robotics Academy at Carnegie Mellon University and Intelitek. Together, these teaching tools will:

🌟 Teach key concepts in science, technology, engineering, and math

🌟 Encourage hands-on, team-oriented activities

🌟 Enable students to use problem-solving skills to address real-world situations

Begin using these tools in your classroom. Call 1-866-VEX ROBOTICS (1-866-839-7626) to speak with a representative about the **Vex Robotics Design System** today!

ALL OF THE PARTS your students will need to make their robotic vision come to life!

Everything You Need in One Place...

The Vex Robotics Design System includes all of the parts your students will need to build an intelligent radio-controlled robot. Here's a preview of the parts and pieces that are included in the kit:

🌟 Programmable microcontroller

🌟 Six-channel hobby-grade radio transmitter

🌟 Motor

🌟 Tires

🌟 Gears

🌟 Sensors

🌟 Hardware

🌟 Inventor's Guide

And much more, including additional kits to allow the inventor to enhance the design, performance, and functionality of the robot!

Meets National Standards in:

SCIENCE

🌟 Motion

🌟 Gravity

🌟 Speed of light

🌟 Electrical and mechanical energy

TECHNOLOGY

🌟 Design process and implementation

🌟 Science, technology, and society

🌟 Systems operations

🌟 Invention and innovation

ENGINEERING

🌟 Control systems
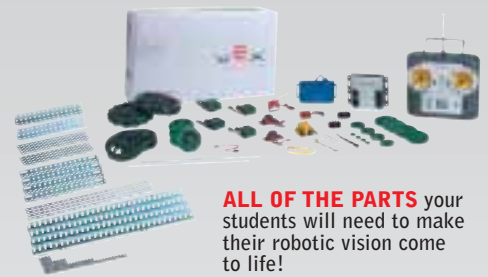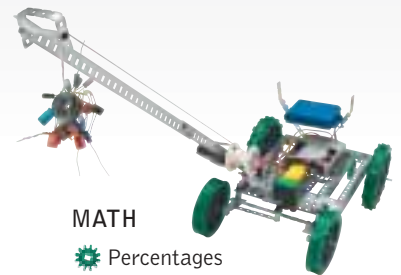
🌟 Basic electronics

🌟 Motors

🌟 Principles of machining

MATH

🌟 Percentages

🌟 Ratios

🌟 Problem solving

🌟 Geometric concepts

Lesson Plans

The Robotics Academy at Carnegie Mellon University is creating comprehensive standards-based curriculum resources that work hand in hand with the Vex Robotics Design System. Lessons are themed around the following concepts:

🌟 Introduction to robotics

🌟 Project management

🌟 Projects/labs

🌟 Engineering/design

🌟 Control systems

🌟 Basic electronics

🌟 Programming

Now, hand out the Amazing Robots reproducible! Introduce your students to robotics!

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