LEGO® Robotics

Big benefits for our students

- Students learn challenging engineering skills through exciting and fun projects
- Students learn to hatch an idea, design and program a robot, test, modify and report their results
- Students master required math, science and language arts skills while creating structures with LEGO®
- Students collaborate in teams, seeking solutions and sharing results
- On site LEGO®-trained expert inspires students and staff
- High schools welcome KTEC students because they are ready for the challenge
- Businesses hiring KTEC-trained students get workers who are: team players, creative and analytical thinkers, and technology savvy

Kenosha School of Technology Enhanced Curriculum
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LEGO® Robotics
Learning complex engineering concepts feels like play

Two kindergartners dig into a box of LEGO® expecting to play, but end up creating a building that is sturdy enough to hold their teacher. The real world engineering concepts learned are overlapping and underlapping.

In another class, fourth grade students calculate gear ratios by reducing fractions for their two-speed racers prior to a 60 degree incline climbing test.

KTEC classrooms engaged in LEGO® Robotics learn and practice math and science skills by building, programming and testing robots. LEGO® Robotics projects also build teamwork, analytical and creative thinking, risk taking, and communication skills. Research supports that these skills are necessary for today’s students to succeed in the 21st Century.

LEGO® Robotics projects engage students in progressively challenging math and science concepts year after year.

Third and fourth graders make LEGO® walkers maneuver over risers and engineer LEGO® bats to flap their wings.

Fifth graders program robots to navigate autonomously, sense color, detect sound and even play music.

Students in sixth through eighth grade apply their knowledge of engineering concepts and programming from LEGO® Robotics to their work in the units of Project Lead the Way.

Math and science test scores are up since the program began. Language arts skills also benefit from the LEGO® program as students report results at the end of each project, bolstering vital communication skills.

Using LEGO® Robotics, KTEC teachers connect learning to the real world while keeping it fun.

State test scores in math and science have improved every year at KTEC since LEGO® Robotics was introduced.