

# ROBOTICS PROGRAM FOR YOUR SCHOOL

## Elementary

Grade	Subjects
2º Grade	Creativity construction: structures Programing with LOGO and CODE.org Algorithms Instructions Conditions Cycles
3º Grade	Simple machines: the park. Programing instructions with Scratch
4º Grade	Simple Machines and Structures: Lever Wheel and axle Pulley Incline Plain Gear Screw Structures Programming with Code.org and Scratch
5º Grade	Mechanism Sweeping Fishing for dinner Fun in cars the hammer Measuring wheel Click-Clock Programing NXT Mindstorm
6º Grade	Mechanism Windmill Boat earth Flywheel Motorized trolley Dragster The walker Robot dog Programming NXT Mindstorms used to solve labyrinths, math problems, etc.

## Middle

Grade	Subjects
1º Grade	Building and design of humanoid. Create models to represent the part of the human body using Lego. Programming with Mindstorms.
2º Grade	Robotics and physics with Lego Testing physical laws. Environmental awareness using renewable energy.
3º Grade	Lego Sensors in life Design the applications of the sensors in life building real scenarios. Programming with Mindstorms.

## HighSchool

Grade	Subjects
Sciences and Robotics area	Vex Robotics Language C to program using RobotC. Basics moves Building robots with VEX (understand the constructions rules). Test and research sensors. Creating a new robot prototype.

## Robotics club

Elementary 3º to 6º grade	Vex IQ robots. Programing with Robot C. Competitions: <a href="http://www.robotevents.org">www.robotevents.org</a>
Middle 7º to 9º grade	Vex IQ robots and VEX Programing with Robot C and dexcbn Competitions: <a href="http://www.robotevents.org">www.robotevents.org</a>
10 to 12 grade	Vex robots. Programing with Robot C. 3D Design with Inventor of Autodesk. Competitions: <a href="http://www.robotevents.org">www.robotevents.org</a>