



## CLASSROOM ENRICHMENT PROGRAMS WITH LEGO® EDUCATION

- Our in-class school programs run 4– 8 weeks, 1 to 2 periods a week during the school year
- All our programs are customized to BC Curriculum Aligned Learning Outcomes
- 3 Models for classroom deployment: Consult, Train, or Deliver

Grades  
1-2



### WeDo 1.0: Junior Robotics Building & Coding

Students will:

- Get introduced to basic robotics & computer science principles
- Control LEGO® built creations with motors and sensors
- Program with drag & drop visual blocks or Scratch and laptops

Grades  
3-4



### WeDo 2.0: Science & Engineering Challenges

Students will:

- Do guided and open projects in a variety of Science fields (e.g. Environment, Space, Animal Kingdom)
- Program with drag & drop visual blocks or Scratch
- Manage bluetooth controlled motors & sensors with iPads or laptops

Grades  
2-5



### StoryStarter: ESL/ELL/LA & Digital Literacy

Students will:

- Build stories with special LEGO® elements, then write and/or speak about their creations
- Improve vocabulary and communication skills.
- Develop digital literacy skills through comic book style story creation on iPads

Grades  
2-5



### Simple & Powered Machines + Renewable Energy

Students will:

- Build and operate all 6 simple machines with LEGO® building elements
- Practice the Scientific method and Experimentation
- Discuss mechanical principles built into everyday machines
- Explore topics such as Renewable Energy (Wind and Solar Power)

Grades  
4-6



### EV3 Mindstorms: Design Engineering & Coding

Students will:

- Program sensors and motors for precise, intelligent movements using EV3 Mindstorms, LabView based visual programming blocks
- Explore computational thinking skills needed to problem solve tasks
- Break down complex robotic behaviours into discreet steps

Grades  
6-8



### VEX IQ: Advanced Robotics & C Programming

Students will:

- Develop advanced skills in using the C programming language used in the industry to code more complex robotic actions.
- Learn RobotC coding language to control sensors and motors on the VEX IQ
- Develop computational thinking, problem solving and design engineering skills

*Hands-on, minds-on learning through LEGO® Education's unique approach to learning: Connect, Construct, Contemplate, Continue*