

### by Acadia Robotics



Downloaded programs will be stored on the Brick, and can be selected, started, and stopped using the controls on the Brick. Motor Ports -(ABCD)

Stop / Back / Power

Off

This is the Brick - the brain of the robot!



Motors plug into the Brick's ABCD ports!



LARGE

MOTORS

Motors power the wheels, arms, and any other attachment you design!

MEDIUM

Use these to move robot attachments, e.g., arm



Motors are the muscles of the Robot!



0160



SENSORS







Detects physical contact with objects.









Measures distance from objects using ultrasonic sound waves.

March Josephere



Sensors plug into the Brick's 1234 ports!



These symbols appear on EV3 Classroom to represent the sensors!



## COLOUR

Detects colour by measuring intensity of reflected light. The lighter the colour, the higher the number.

Robot actions can be programmed to occur when something is sensed.





Connect your robot via Bluetooth or by using the USB download cable.



Programs often start with this block. You can always find it in the yellow 'Events' tab on the left-hand side.



EV3 CLASSROOM AUTOMATICALLY SAVES YOUR WORK



vet's Try 

**PROGRAM EXAMPLE 1** 









To delete a block, simply click it and press the delete key!



To separate blocks, pull the bottom block

away.









occurred.



When the program is run...

teres what should happon.

(motors A & B will be used for movement)

the robot will move in the direction 30° right...

until the touch sensor is pressed.

When the touch sensor is pressed, the robot will stop moving.

Then the program will stop running and exit!





# Download your program to the robot!







robots.acadiau.ca