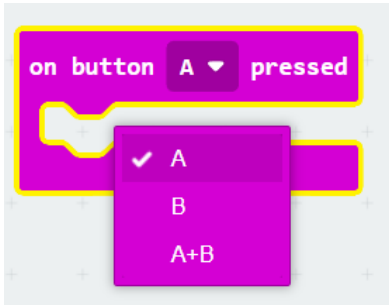
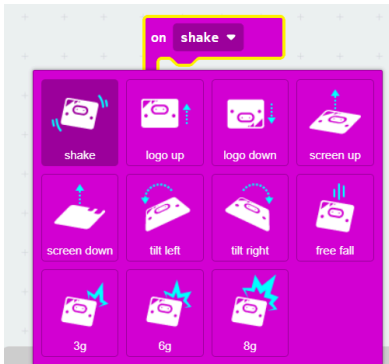
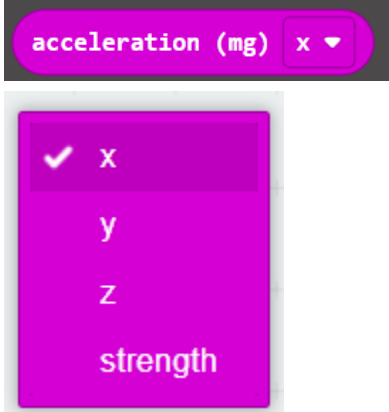
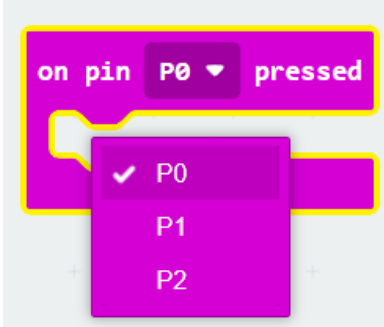

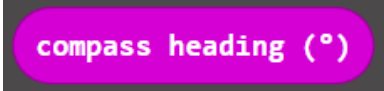

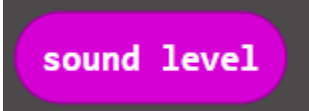
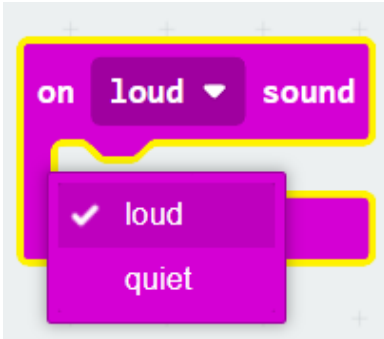




Micro:bit v2 Sensors

Sensor	Block	Uses
Buttons		Start/Stop a program/timer Reaction time
Pre-set acceleration <ul style="list-style-type: none"> • Shake • Logo Up • Logo Down • Screen Up • Screen Down • Tilt left • Tilt Right • Free Fall • 3g • 6g • 9g 		Step Counter Dice Magic ball Creating musical instruments Lunar lander experiment Motion experiments Circular motion Trigonometry (acceleration in x and Y as vectors, moving the micro:bit in a circle) Length of pendulum
Acceleration (milli g-force)		Motion experiments

Pin touched (at the same time as the ground)		Like the Makey-makey Trigger plates Music instrument
Light Level (0 to 255)		Where to plant a sun loving plant? Energy usage in a room. As a trigger for motion experiments? Night sensor (turns on light when it's dark) Light alarm
Compass Heading		Compass Treasure hunt Door alarm
Temperature		Measure temperature changes throughout the day, or different locations in the class/school.
Sound level Sound trigger (loud/quiet)	 	Loudness meter (to indicate when students need to quiet down) Sound trigger. Clap light.
Rotation (pitch)		
Magnetic Force		Is something magnetized? How does the magnetic force

		relate to distance from the source?
Running time		
Digital Pin (0/1)		Testing conductivity (yes/no)
Analog Pin (0-1024)		Testing conductivity (values) Battery tester

[External sensors at PiShop.ca](http://PiShop.ca)

[Short Discovery Activity](#)