

Self e-STEM

mBot2 Programming Vocabulary Cheat Sheet!

Basic Coding Terms

Word	What It Means	Example
Command	A single instruction for the robot.	"Move forward 1 second"
Sequence	Steps that happen in order.	"Turn → Move → Stop"
Loop	Repeats instructions again and again.	"Keep moving until a wall"
Condition	A rule: if this happens, do that.	"If you see a line, turn left"
Variable	A box that holds numbers or words.	"Distance = 15 cm"
Debug	Fixing mistakes in your code.	"Fix it if the robot won't turn"

Robot Parts & Sensors

Part	What It Does
Motor	Spins the wheels to move the robot.
Ultrasonic Sensor	Measures distance to things (like a wall).
Line Sensor	Follows a black line on the floor.
Light Sensor	Detects how bright or dark the space is.
Gyroscope	Feels if the robot is tilting or spinning.

Bonus Cool Words

Word	What It Means
Event	Something that starts the code, like a button press.
Input	Info the robot collects (like distance).
Output	What the robot does (lights, sounds, moves).
Algorithm	A plan of steps to solve a problem.
Function	A saved set of instructions to reuse anytime.

Remember: Coding is just giving your robot a smart set of instructions!