

Unit 1 CodeBot Vocabulary By Mission

Lesson – Getting Started	
Browser	Software that displays web pages
Cloud	A place to save files and data through the Internet
Mission 1 – Welcome to CodeSpace	
Objective	The steps in the mission; has a goal to accomplish
Text editor	Where you type the code
Code	Instructions to the computer
Toolbox	A place in CodeSpace to keep information you learn about programming concepts so you can use it later when you need the information
Simulation	A 3D environment that lets you see the robot move and interact in a virtual world
Debugging	Fixing your code
Mission 2 Lesson 1 – Introducing CodeBot	
CodeBot	A computer on wheels with lots of sensors and controls built-in
Peripherals	Devices that give input or output to CodeBot (some CodeBot peripherals are LED lights, speaker, motors, line sensors, proximity sensors, an accelerometer, and pushbuttons)
Motors	Programmable electric engines; powers the wheels
LEDs	Light emitting diodes; tiny and efficient electronic components that produce light
Wheel encoders	Discs that rotate, counting the invisible IR light beam pulses through its slots
Static electricity	A charge that can build up and causes a jolt and spark when grounded
Mission 2 Lesson 2 – Introducing CodeBot	
Comment	Code that doesn't get run (more information in Mission 3)
Import	Provides access to a module (or library) of pre-defined Python objects and functions to use in your code
Boolean	A data type that has two possible values: True or False
Mission 3 Lesson 1 – Time and Motion (Objectives 1-5)	
Physical computing	Writing code (instructions) for a physical device, like CodeBot or cars
Editor shortcuts	Keyboard hotkeys to write code faster; combinations of keys which complete a task
CPU	The “brain” of the computer that executes your code; the Central Processing Unit
Debugging	The process of understanding what the computer is actually doing and then changing the code to do what you want it to do

Argument	A value that is passed to a function
Literal	An actual value, like 1 or "hello" or True
Variable	A name to which you assign some data, like a number; must be defined before it is used

Mission 3 Lesson 2 – Time and Motion (Objective 6)

Binary	A number system, or computer language, that uses only 0s and 1s
Bit	A single binary digit (on/off or 1/0)
Byte	A set of 8-bits of binary data
Bit banging	Controlling hardware with binary digits

Mission 3 Lesson 3 – Time and Motion (Objectives 7-8)

Wildcard	The * character; shorthand for "everything"
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Mission 3 Lesson 4 – Time and Motion (Objectives 9-11)

Algorithm	A list of instructions, in order, that the computer can follow to complete a task. (A precise sequence of instructions that the computer can follow exactly, one step at a time, to complete a task or solve a problem.)
Comments	Notes in the code about what you are doing; ignored by the computer
Whitespace	Adding blank lines and space around symbols to make the code more readable
Control flow (Branching)	Decision points in code; code will take a different branch or path depending on a condition
Condition	A Boolean value (True or False), often the result of a comparison operator like <, > or = Use an if statement, optionally followed by an elif or else, for branching
Indenting	A way to structure blocks of code by offsetting a block of code four spaces; blocks of code are indented following a statement with a colon (:)