XAVIER SCHOOL
OPERATION NEXT OFFICE
Tel. +632 7230481 loc. 405
64 Xavier Street, Greenhills West
San Juan City, Metro Manila 1500

GRADE 5 COMPUTER EDUCATION
SY 2019 - 2020 - 3rd Quarter
Advanced Visual Programming using VEX IQ with Design Thinking

VEX IQ

- is a robotics platform designed to transform the STEM learning paradigm for young students and their teachers (grades 4-8).

VEX IQ Parts (Initial parts)

Smart Motor	**Brain**	**Smart Cables**
		
module converts electrical energy from the battery into rotational energy.	this is where all your programs are stored. It will only recognize newly connected devices when first "powered up." If you connect, move, or disconnect any VEX IQ device - make sure to power your robot off and then back on!	it is the one used to connect the different devices to the brain.

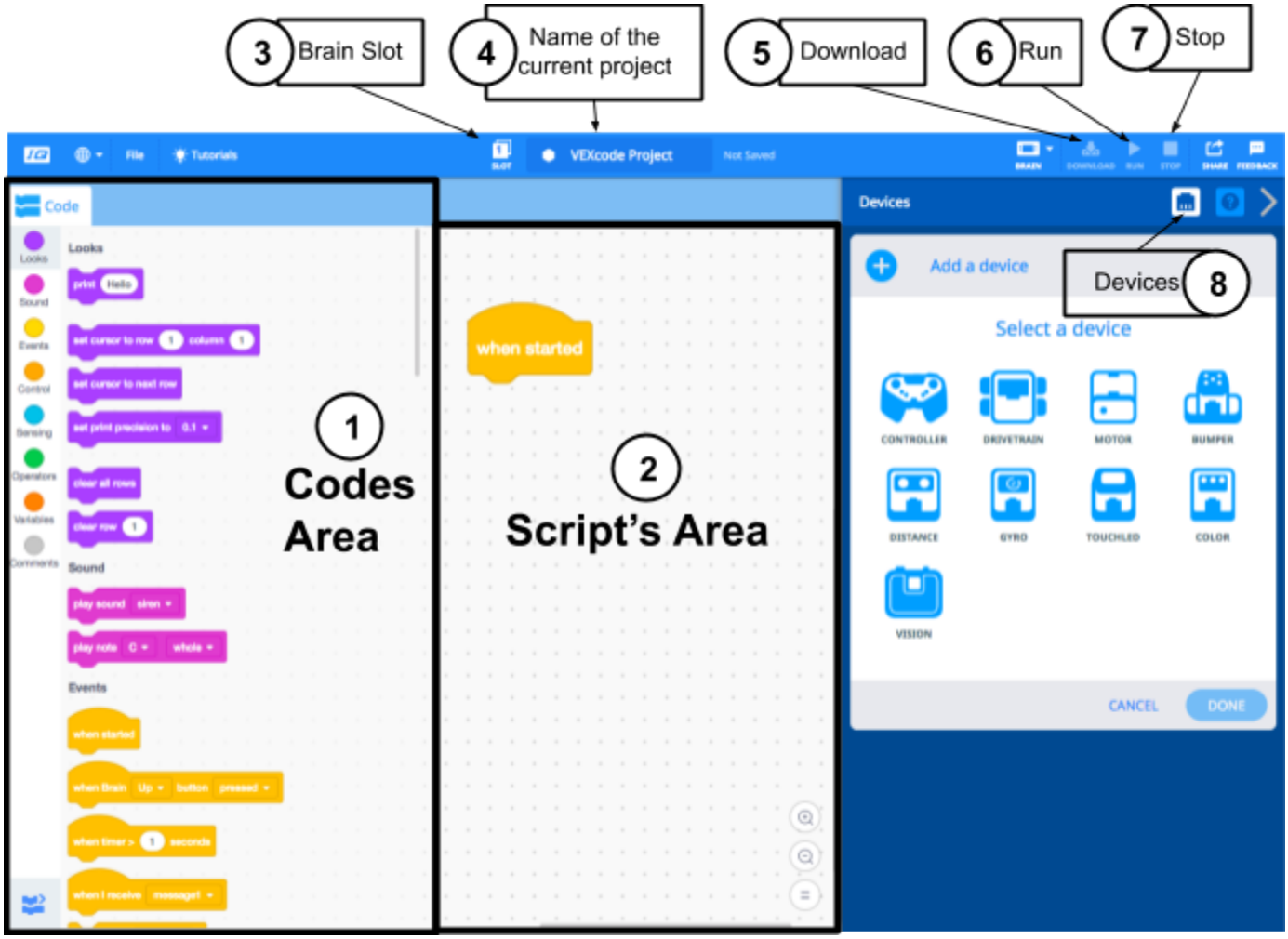
Battery	**Remote Controller**
	
is where the energy of the robot is coming from.	is the one used for controlling the robot.

Reference: *vexrobotics.com*

VEXcode IQ Blocks application

- is a graphical drag & drop programming environment powered by Scratch Blocks.

VEXcode IQ Blocks Interface



1. Codes Area - is where all the codes are.
2. Script's Area - is where the program is being created.
3. Brain Slot - shows the options as to which slot of the brain will you download the program.
4. Name of the current project - the name of the current project.
5. Download - downloads the program into the robot's brain. The robot's brain must be connected to enable this button.
6. Run - plays the program while robot is connected through a cable. Used for debugging. The robot must be connected to enable this button.
7. Stop - stops the program while robot is connected through a cable. The robot must be connected to enable this button.
8. Devices - this is where you can see the other parts of the robot. If a device is added, the code designed for that device will be added in the Code's Area.

For Videos and Tutorials, you may visit:

VEXcode IQ Blocks Tutorial Playlist:

https://bit.ly/35BSFwZ

Reference: *vexrobotics.com*