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 Serving Georgia K-12 Next Gen STEM/STEAM Skills  
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## CHESSTRONICS VEX IQ (4th to 8th Grade) NEW BATCH STARTING !!

Online Registration - [www.chesstronics.com/robotics-registration](http://www.chesstronics.com/robotics-registration)

***First 2020 Batch Starting on Feb 16th Sunday 11.00 to 12.00 p.m.***

### **Sessions Topic & Overview**

<b>Sessions</b>	<b>Topic</b>
1	Overview - Robotics, Engineering, STEM
2	VEX IQ - Overview, Hardware, Controller & Brain
3	First Robot 1 - Overview, Build Options, Design Process
4	First Robot 2 - Overview, Build Options, Design Process
5	First Robot 3 - Overview, Build Options, Design Process
6	First Robot 4 - Overview, Build Options, Design Process
7	First Robot 5 - Overview, Build Options, Design Process
8	Key Concepts - Friction, Center of Gravity, Speed, Torque, Simple Machines & Motions
9	Mechanisms - DC Motors, Gear Ratios, Drivetrains, Lifting mechanism, Object Manipulation
10	Knowledge Check-Test-Demo
11	Smart Machines - Sensor, Programming, Distance Sensor, Gyroscope, Degrees of Turn
12	Smart Machines - Simple Programming 1
13	Smart Machines - Simple Programming 2
14	Highrise Challenge 1 - Overview, Rules
15	Knowledge Check - Test -Demo
16	Team Challenge Robot - Session 1
17	Team Challenge Robot - Session 2
18	Team Challenge Robot - Session 3
19	Team Challenge Robot - Session 4
20	Team Challenge Robot - Session 5
21	Team Challenge Robot - Session 6
22	Engineering Notebook
23	Team Challenge Demo
24,25	VEX IQ Field Learning(Schools)