

# ATTENTION:

*Parents, Robotics Coaches, Teachers, School & Community Organization Admins*

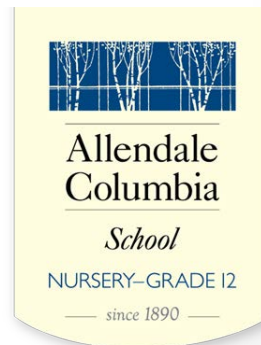
*We're supporting the formation of **VEX IQ Robotics Teams** throughout the Greater Rochester Area*

...For teams of two to ten students, in Grades 4 – 8, interested in competing

...Choice of competing in autonomous robot programming, by remote control, or both

...Free **Informational Meetings** and **Coach Training Sessions**

*In partnership with:*



# Who we are...

## S.T.E.M. Team at Allendale Columbia



Sue



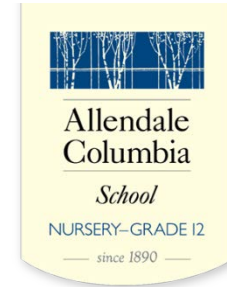
Donna



Kathy



Teresa



- a team of **former professionals in corporate engineering**
- experienced & NYS certified teachers who joined forces with specializing in Grades K-8+, **Engineering Education & Robotics**
- **2014 Award Recipients** by the **International Association for STEM Leaders** for our innovative Engineering Education Programs at **Allendale Columbia School**

# *Who we are...*

*(continued)*

- **Invited Local & National-Level Conference Speakers** on Real World, Robotics & Engineering Education, Grades K-8, *along with years of experiences as:*
- **Rochester-Area Science Fair Exhibitors** with promoting STEM, Robotics, and Engineering Education
- **FIRST LEGO League (FLL)** Robotics Team Coaches, Mentors, Coach Trainers
- **Jr. FLL** Robotics Team Coaches, Mentors, Event Organizers, Expo Emcees
- **RIT Annual E-3 Engineering & Technology Fair** Promoters & Robotics Team Mentors
- **Science Olympiad** Robotics Team Mentors

And, *new in 2015-16*, Rochester-Area, organizers & supporters of **VEX IQ Robotics Competition Events & Team Development**

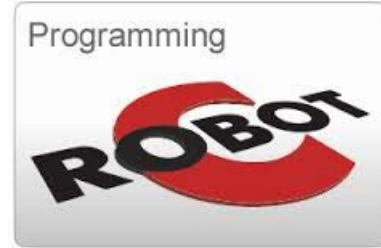
# VEX IQ Robotics



[www.idesignsol.com](http://www.idesignsol.com)



A STEM Education Revolution for  
Elementary and Middle School



## Structural & Electronic Components:

- **Efficiently designed** (ease of adding, relocating sensors, etc.)
- **“Classroom & Competition friendly”** for managing all structural & electronic components
- Provides for **autonomous control** with emphasis on high-level programming, *and/or*:
- Provides for **remote control** with emphasis on structural & mechanical engineering design

# VEX IQ Robotics



[www.idesignsol.com](http://www.idesignsol.com)

*Continued...*

**Elementary/Middle School System:**

*This is the system we are focusing on...*

VEX IQ



**Competitive Events to be held at:  
Allendale Columbia School in Rochester**

**High School System:**

VEX EDR

*Just an FYI on the high school system...*



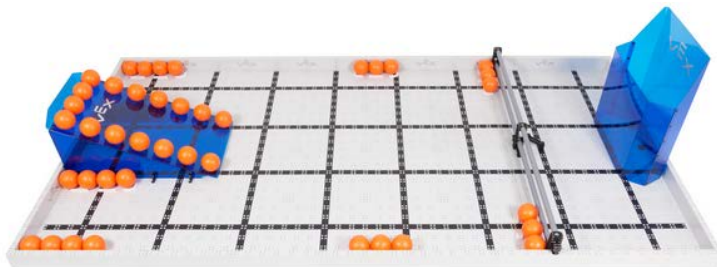
**Competitive Events scheduled at:  
Livonia Central & Syracuse**



**VISTA TEACH**  
INSTRUCTIONAL SERVICES

STEM EDUCATION: Real World, Engineering Education for Young Minds | [www.VistaTeach.biz](http://www.VistaTeach.biz)

# 2015-16 VEX IQ Competition Challenge



## The Game:

VEX IQ Challenge – Bank Shot is played on a 4'x8' rectangular field configured as seen above. Two robots compete in the Teamwork Challenge as an alliance in 60 second long teamwork matches, working collaboratively to score points. Teams also compete in two additional challenges; The Robot Skills Challenge where one robot takes the field to score as many points as possible under driver control; The Programming Skills Challenge where one robot scores as many points as possible autonomously, without any driver inputs.

The object of the game is to attain the highest score by Emptying Cutouts, Scoring Balls into the Scoring Zone and Goals, and by Parking Robots on the Ramp.

## The Details:

There are a total of forty-four (44) Balls available as Scoring Objects in the game. There is one (1) Scoring Zone, one (1) Goal, one (1) Ramp, and sixteen (16) Cutouts on the field.

## Scoring:

Each Ball Scored in the Scoring Zone	1 point
Each Emptied Cutout	1 point
Each Ball Scored in the Goal	3 points
Having One Robot Parked on the Ramp	10 points
Having Two Robots Parked on the Ramp	25 points



[\*\*VEX IQ Bank Shot Challenge Video\*\*](#)

# Why VEX IQ Robotics

*and, how does it compare to other Robotics Competitions?*



- **Provides an additional robotics competitive opportunity** for existing robotics teams to “extend” their competition season utilizing another great robotics system
- **Provides students the opportunity to choose** to compete **autonomously** (emphasis on high-level programming) OR, **via remote, driver control** (emphasis on structural & mechanical engineering design) OR, in Team Alliances, OR in any combination!
- **“Competition Team friendly”** especially for first-time, Team Coaches with providing:
  - the choice of remote control competition (no programming software to learn)
  - one, main game objective, to solve for (attaining the highest score by Emptying Cut-Outs, Scoring Balls into the Scoring Zone & Goals, and by Parking Robots on the Ramp)
  - a competition venue focused primarily on robotics (though teams may also compete with entering an optional research project if they so desire)

# Calling all new, ...Competitive Teams!



With hosting the first-ever, Rochester Area, Sanctioned VEX IQ Robotics Competition Events – we are excited to support the formation of Competitive Teams!

- **Remember, anyone can form a team** – While Competitive Teams may be school-based, they may also be community-based, organization-based or, even composed of best friends...
  - For students in **Grades 4– 8** in **Teams of two to ten** (we recommend no more than 6 Team Members)
- **VEX IQ Qualifying Competition Event** scheduled for **Sunday, January 17, 2016** at *Allendale Columbia School* in Rochester, NY
- **VEX IQ New York State Championships** scheduled for **Sunday, February 21, 2016** at *Allendale Columbia School* in Rochester, NY



# Mark Your Calendar!



We invite you to come and learn more at one of our

## VEX IQ Competition Informational Meetings: *(Adults Only)*

- **6:30 PM, Wednesday, August 12<sup>th</sup>** at *Allendale Columbia School*, 519 Allens Creek Road  
– OR –
- **6:30 PM, Wednesday, August 26<sup>th</sup>** at *Allendale Columbia School*, 519 Allens Creek Road

We invite you to come and receive training at one of our

## VEX IQ Competition Coach Training Sessions: *(Adults Only)*

- **6:30 PM, Wednesday, September 16<sup>th</sup>** at *Allendale Columbia School*, 519 Allens Creek Road  
– OR –
- **6:30 PM, Thursday, October 15<sup>th</sup>** at *Allendale Columbia School*, 519 Allens Creek Road

# Last of all....

- Please, *pass this information on!*
- Contact Information Below



For VEX IQ competition supplies, contact:

**Scott Read** at iDesign Solutions

[Scott@idesignsol.com](mailto:Scott@idesignsol.com)



[www.idesignsol.com](http://www.idesignsol.com)

For VEX IQ, competition info contact:

**Sue Sorrentino** at Vista Teach

[Sue@VistaTeach.biz](mailto:Sue@VistaTeach.biz)



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