

Ignite Your Passion Programs







Big Bad Bot Builders FOR Grades 4 – 6
AND

Great Bots of Fire FOR Grades 7 - 8

2021 - 2022 Open House Information



Acknowledgement



We would like to acknowledge and thank the Squamish Nation upon whose traditional territory West Vancouver Schools reside.

We would like to express our gratitude to this Nation as we value the opportunity to learn and share educational experiences on this traditional territory.







Dr. Mahesh Chugani West Vancouver Schools Teacher

Qualifications:

- Diploma in Electronics & Radio Engineering
- Bachelor of Engineering in Electronics & Telecommunications Engineering
- M.S. and Ph.D. in Electrical Engineering



- Teacher Sentinel, Rockridge, WVSS
- Certified VEX IQ Robotics Educator
- Certified VEX IQ Head Referee
- Certified VEX IQ Judge
- Certified Amateur Radio Operator (VA7 MCU)
- Member, Project Advisory Committee, Canada's ICTC (Information & Communications Technology Council)





Mr. Todd Ablett West Vancouver Schools Teacher



Hardware (Botsmith)

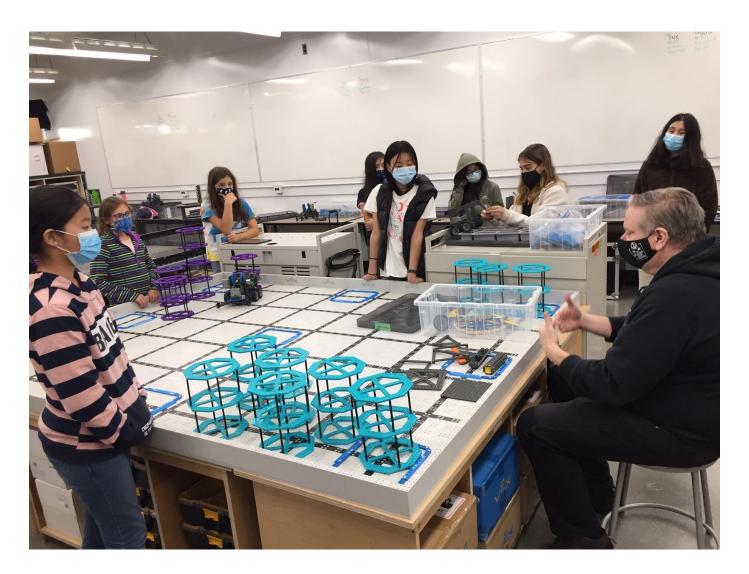
Qualifications:

- Journeyman Red Seal Electrician
- Bachelor of Science UBC
- Trained Technology Education Teacher

Robotics Experience:

- 2000 2020: Taught robotics
- 2007 to present: Qualified and attended the VEX Robotics World Championships.
- 2011: Awarded Prime Minister's Teaching Excellence Award
- 2012: Won the VEX Robotics World Championships
- 2014: VEX Robotics Teacher of the year & VEX STEM Hall of Fame recipient
- 2016: Started Robotics Academy at WVS



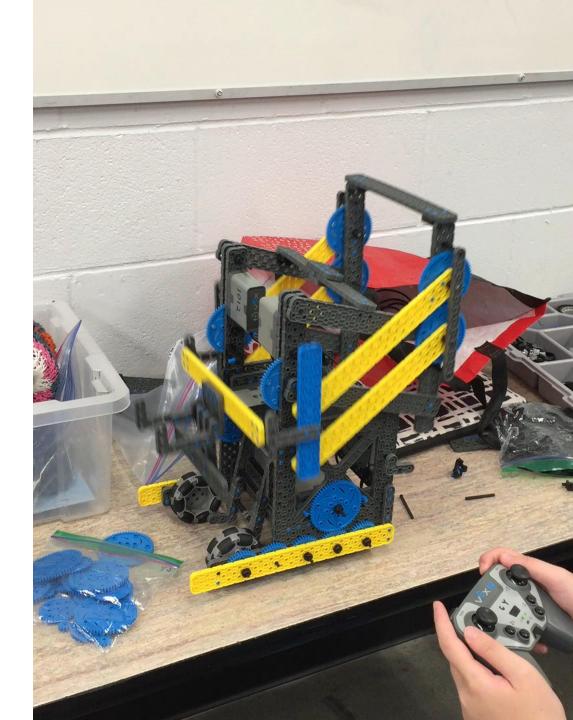


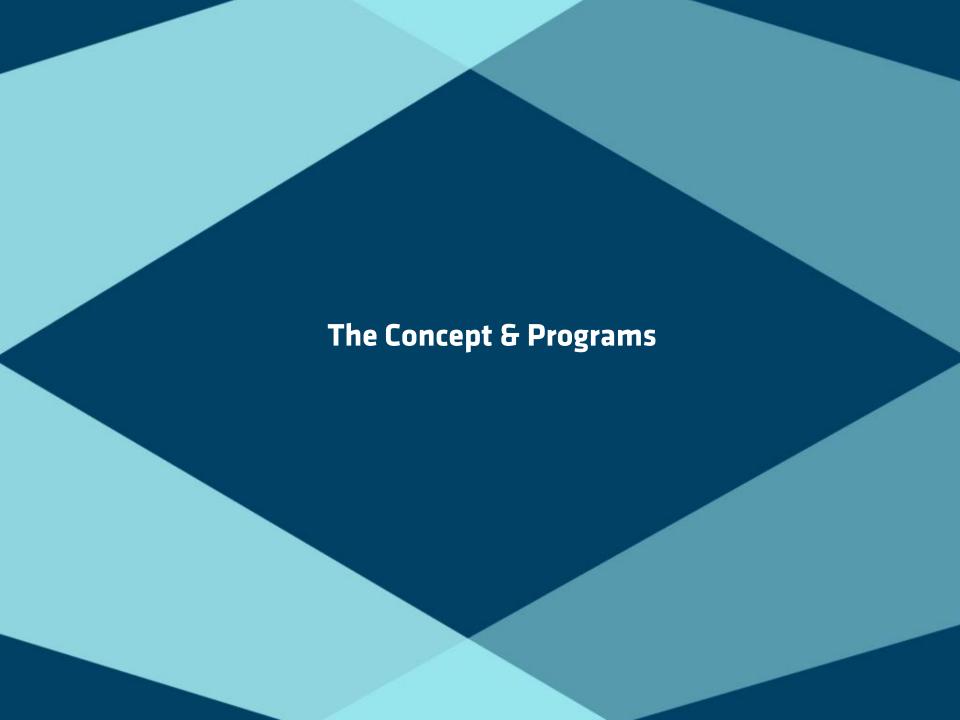


Lifting Mechanism

Example:

Double Reverse 4-Bar







General Concept

- IYP programs are district programs designed to provide unique opportunities for our students
- For students registered full time in the West Vancouver School District
- The programs are taught by WVS teachers
- IYP programs are choice programs with fees associated with them
- Specifically, for these IYP program, they are for students Grades 4 – 8:

Big Bad Bot Builders: Grades 4-6 Great Bots of Fire: Grades 7-8

 We focus on developing a fun, yet challenging environment for the students





Big Bad Bot Builders: Grades 4 – 6

Great Bots of Fire: Grades 7 – 8

Hands-On Project Based Learning Environment:

Students design, build, program various types of robots

Hardware:

Explore various elements of **mechatronics and robotics**: structures, gears, lifting mechanisms

Software:

Learn fundamentals of computational thinking, coding, & programming

Tournaments:

Learn "soft" skills – teamwork, organization skills, time management, and learning from mistakes is encouraged





The Rationale



Students "learn by doing"

I hear and I forget
I see and I remember
I do and I understand

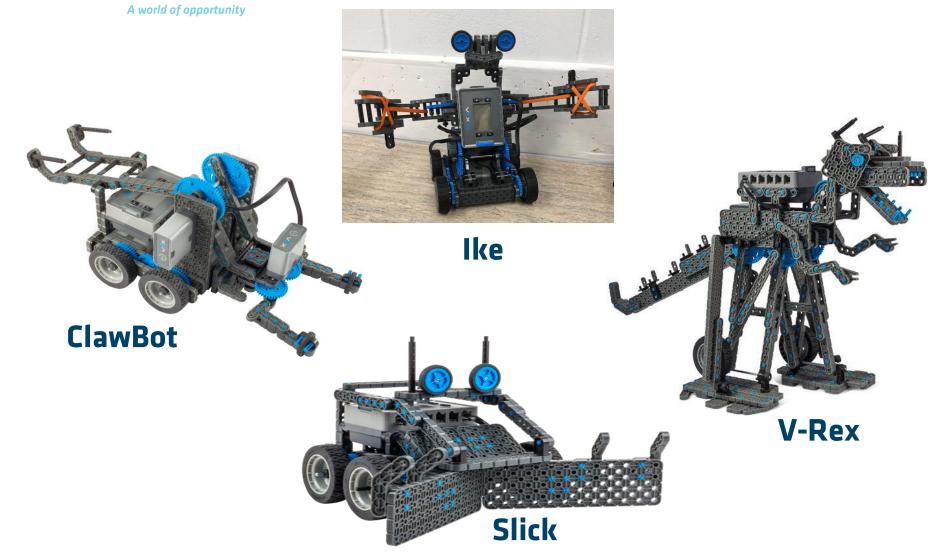


Students can follow several different paths, depending upon their interests:

- Building robots (with instructions)
- Building robots (using imagination)
- 3. Programming
- 4. Games
- 5. Tournaments
- 6. Leadership opportunities



1. Building - Follow Instructions

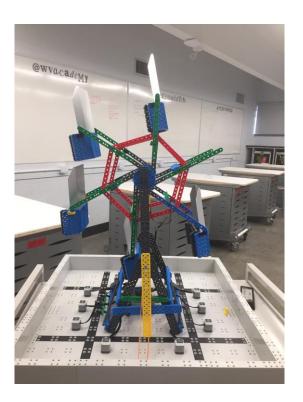


2. Building - Using your Imagination





Simpleton





Hole Digger

Ferris Wheel with Trophies

2. Building – Using your Imagination (Video)



Simpleton



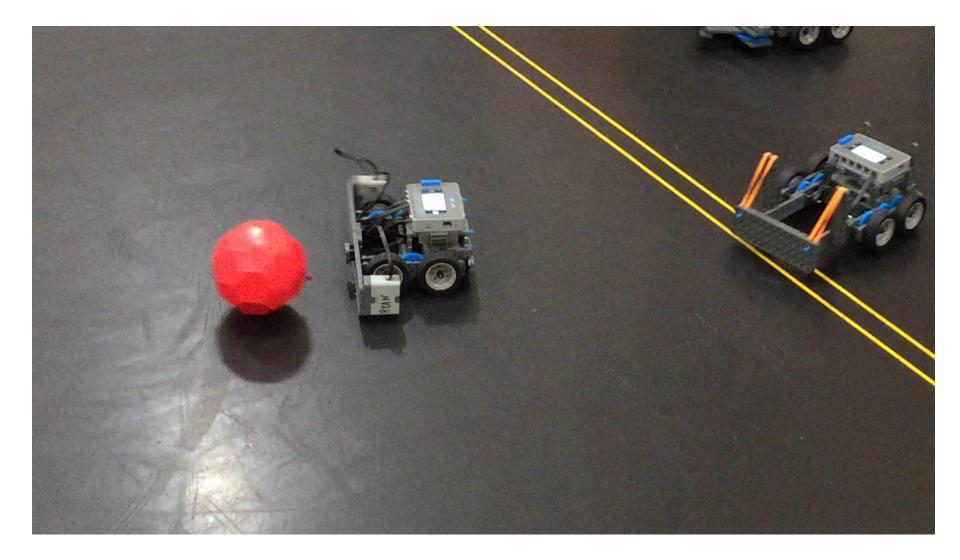


3. Programming





4. Games - RoboSoccer





4. Games - RoboRace





5. Tournaments



You never fail. You either **Succeed**, or you **Learn** (improve the robot, and return better prepared for the next tournament)

5. Tournaments

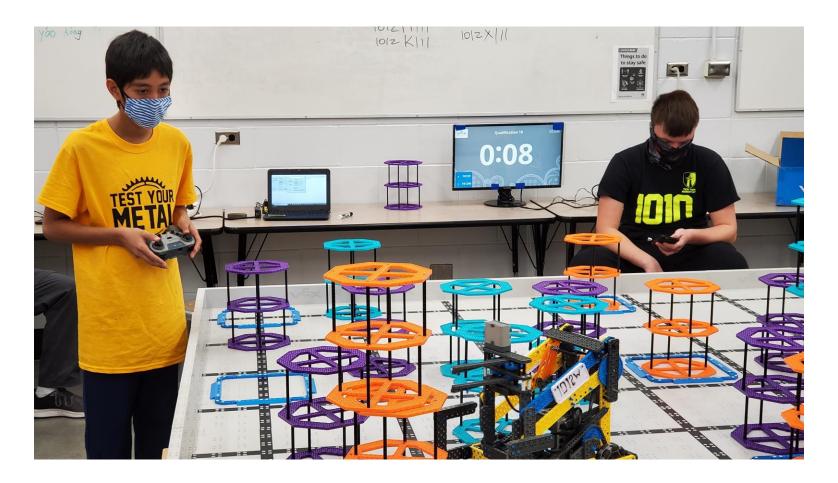




You never fail. You either **Succeed**, or you **Learn** (improve the robot, and return better prepared for the next tournament)



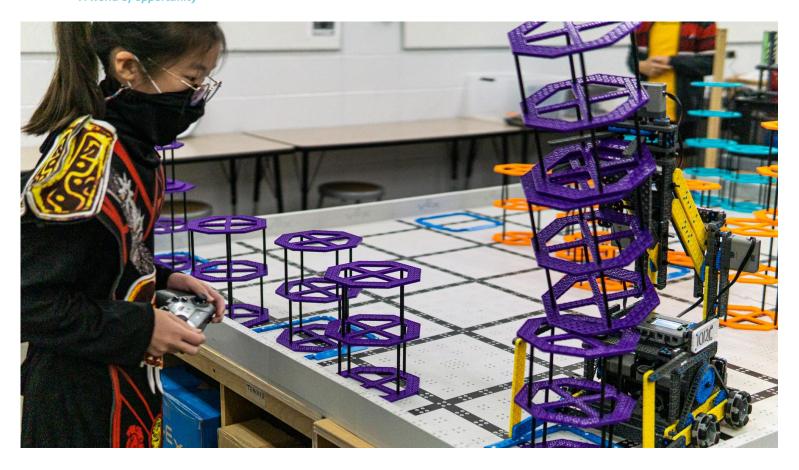
5. Tournaments: Sample Photo



The student on the left is driving his robot to stack the risers in the goal zone



5. Tournaments: Sample Photo





5. Tournaments: Sample Photos

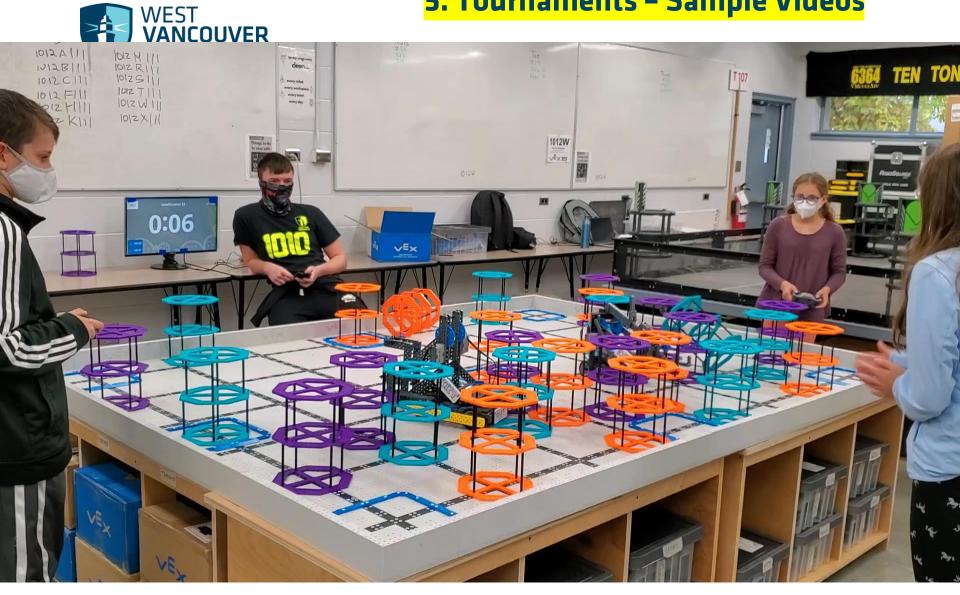




1012X

Trophy from Oahu, Hawaii

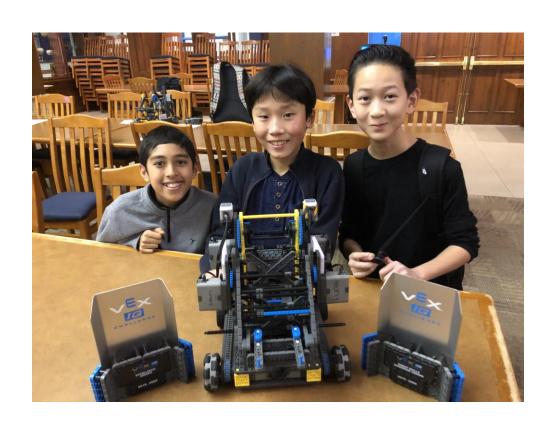
5. Tournaments - Sample Videos





6. Leadership Opportunities

- 1. Robot Inspector
- 2. Referee
- 3. Judge
- 4. Queuer
- 5. Tournament Manager
- 6. Tournament Director





Student Feedback

The freedom to create.

You get to work with your hands and work in teams to develop and construct ideas.

We have the chance to build whatever we like without limits.

Learning a new skill set that will help me in the very fast changing world.

Being able to create and improve my ideas in a physical way.



Summary

There is a lot to learn in the program.

Students can learn every year that they participate.

- 1. Building robots (with instructions)
- 2. Building robots (using imagination)
- 3. Programming
- 4. Games
- 5. Tournaments
- 6. Leadership opportunities



Depending on student interests....plenty of opportunity for creativity.

The Schedule & Location

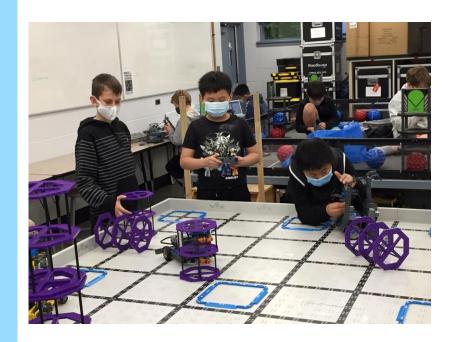


September - June All Year Long

Big Bad Bot Builders (Grades 4-6) Monday OR Wednesday 3:30 - 5:00 p.m.

Great Bots of Fire (Grades 7-8) Tuesday OR Thursday 4:00 - 5:30 p.m.

Both located at West Vancouver Secondary School Technical Wing Robotics Room T107







The Equipment or Supplies





Fees



September – June

\$130 per month x 10 months

Once a student is confirmed for the program, parents will be asked to provide a non-refundable deposit

All payments are completed through School Cash-Online

More information will be provided



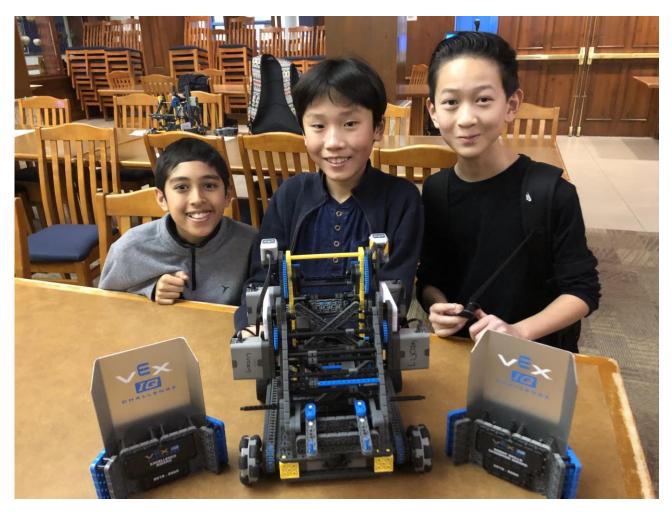


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Selection Process & Criteria

Genuine interest or passion – sound reasons for applying
Commitment to participate for the full school year
Complete the on-line student information form for the specific Ignite Your Passion program (e.g., Big Bad Bot Builders OR Great Bots of Fire)
Immediately following the submission of the online student information form, parents are to provide the student's most recent report card. Registration is not complete without the report card.
Show evidence (report card) or answers within the completed registration form: Ability to work well and making good progress in current classroom at school Evidence of good character: being responsible & respectful Ability to work well with others Ability to follow the rules of a special program, as well as the mandatory health & safety protocols





Thank You for Your Time