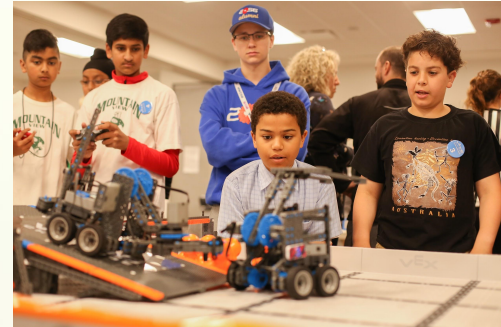
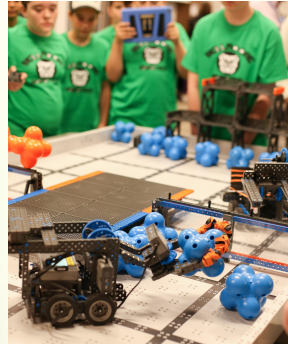




# Welcome

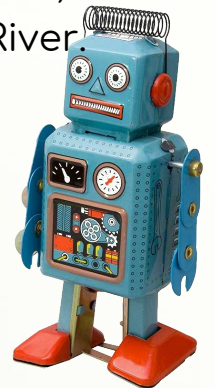


# Land Acknowledgement

The Hamilton-Wentworth District School Board acknowledges our presence on ancestral Anishinaabe and Haudenosaunee Confederacy land as determined by the Dish with One Spoon treaty.

The intent of this agreement is for all nations sharing this territory to do so responsibly, respectfully and sustainably in perpetuity.

We respect the longstanding relationships with the local Indigenous communities, the Mississaugas of the New Credit First Nation and the Six Nations of the Grand River.



# Our History: Where We've Come From

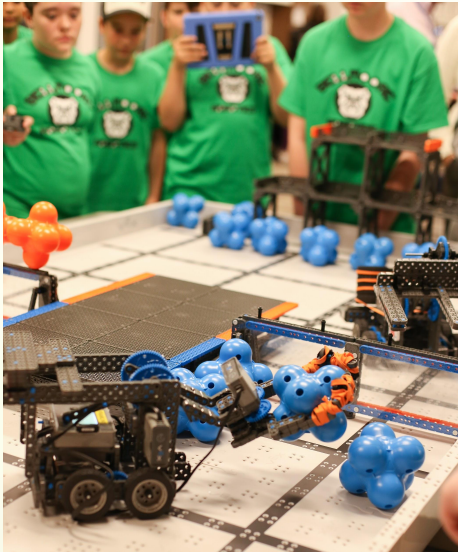
- March 2016
  - 150 Vex kits sent to the system
  - 29 schools (22 Elementary, 7 Secondary)
- June 2017
  - First board competition with 16 elementary schools
- March 2018
  - 2nd Competition: 26 schools



# Present



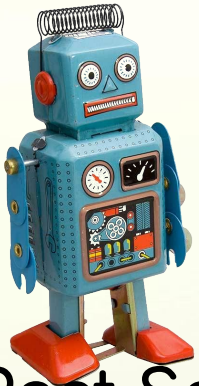
- Planning for
  - Intermediate competition
  - Junior Competition
  - Senior Competition (HS)
- Approximately 30 teams combined
- Pilot Project in 5 High Schools
- Int and Senior Teams to Skills ON.



# Future Focus

**Transitions:** How can we support each other in associate schools?

**Monthly plan:** What might our touch points be?



**Curriculum:** How can we ensure this is not just play? How do we go deeper and integrate into our learning and the learning of our students?

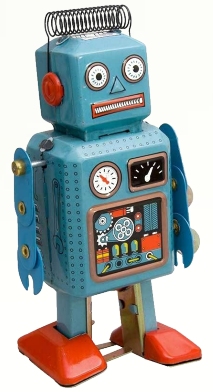
**Post Secondary Pathways:** Skills related to workforce

# So...What is Robotics All About?

Providing the **tools to inspire** the **problem solvers** of tomorrow.

*Coopertition* involves learning from teammates. It is teaching teammates. It is learning from Mentors. And it is managing and being managed. *Coopertition* means competing always, but assisting and enabling others when you can.

- **Discovery:** *We explore new skills and ideas.*
- **Innovation:** *We use creativity and persistence to solve problems.*
- **Impact:** *We apply what we learn to improve our world.*
- **Inclusion:** *We respect each other and embrace our differences.*
- **Teamwork:** *We are stronger when we work together.*
- **Fun:** *We enjoy and celebrate what we do!*



# Curriculum Connection

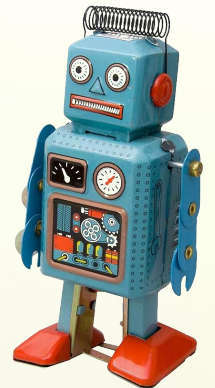
How does Robotics fit into our subject curricula?

How does Robotics fit into Learning Skills and Learning Styles?



# Building Learning Goals and Success Criteria

- Use overall expectations to create a learning goal statement
- Co-create success criteria with students in language that is accessible to them (having in mind what you wish to address)



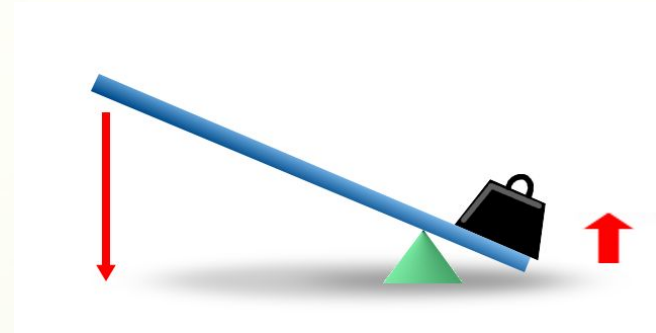
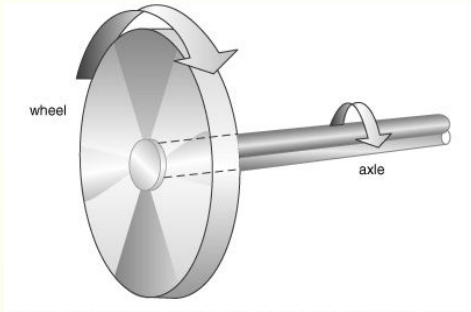
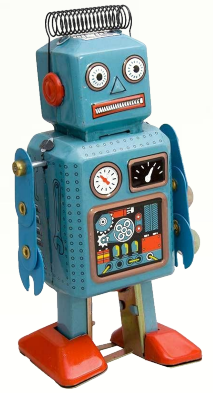
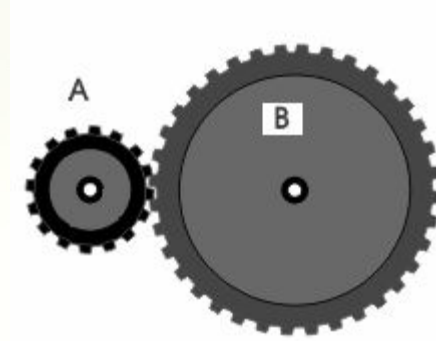
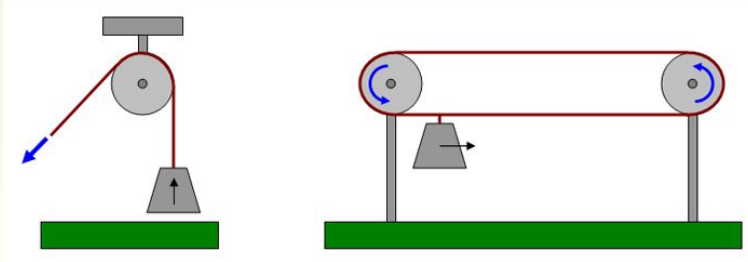


# Getting Into the Box

A sample lesson to get started with kids in a class or a club



# Simple Machines



<https://content.vexrobotics.com/vexiq/curriculum/Unit-D-SMM/Unit-D.pdf>

# Open Response Assessment Tool

- Learning Goals:**
- 1. To independently assesses and revise plans to complete a task**
  - 2. Demonstrate the capacity for innovation and the willingness to take risks**

<b>Not yet...</b> Evidence of not quite reaching the success criteria.	<b>Success Criteria</b>  <b>Learning Skills Focus</b>	<b>For sure!</b> Evidence of going beyond the success criteria.
	I can create a simple machine that works.	
	I can revise my plan if I'm not successful.	
	I can create a model different from the example.	

# Open Response Assessment Tool

## Learning Goals:

1. Develop the skills, strategies, and habits of mind required for scientific inquiry and technological problem solving by building a variety of simple machines
2. To investigate mechanisms that include simple machines and enable movement
3. Demonstrate an understanding of movement and ways in which simple machines help to move objects

<b>Not yet...</b> Evidence of not quite reaching the success criteria.	<b>Success Criteria</b>  <b>Curriculum Focus</b>	<b>For sure!</b> Evidence of going beyond the success criteria.
	I can investigate the structure and function of simple machines.	
	I can use technological problem-solving skills to design, build, and test a mechanism that includes one or more simple machines.	
	I can use appropriate science and technology vocabulary (including pulley, wheel, axle, lever, gears).	

# How to Involve Students

Jobs...roles

Inquiry

Involve in getting money

Fundraising



# Supports

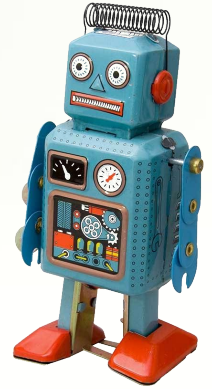
List of teachers involved @RoboticsHWDSB

System Robotics Team

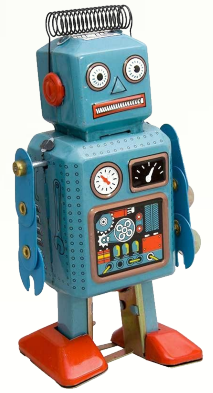
Curriculum links: [bit.ly/RoboCurriculum](https://bit.ly/RoboCurriculum)

Google Folder: Build Instructions, Game and Competition Details

[bit.ly/VexRoboticsResources](https://bit.ly/VexRoboticsResources)



# Play Time



1. Preview and Play “Next Level” Vex IQ Competition: Junior/Intermediate
2. Preview “Turning Point” Vex EDR Competition: Secondary

