Teacher: Mr. Harper

Materials needed:
- three-ring binder with paper
- pen and pencil
- calculator

Vex Robotics Curriculum:
Unit 1  →  Introduction to VEX and Robotics
Unit 3  →  Building a Protobot
Unit 4  →  Microcontroller and Transmitter Overview
Unit 5  →  Speed, Power, Torque and DC Motors
Unit 6  →  Gears, Chains, and Sprockets
Unit 7  →  Advanced Gears
Unit 8  →  Friction and Traction
Unit 9  →  Drivetrain Design 1
Unit 10 →  Drivetrain Design 2
Unit 11 →  Creating a Tank Tread Drive
Unit 12 →  Object Manipulation
Unit 13 →  Rotating Joints
Unit 14 →  Accumulator Design
Unit 15 →  Linkages
Unit 16 →  Bumper and Limit Switch
Unit 17 →  Systems Integration

Marks:
- Exam  Value 25 %
- Projects Value 25 %
- Quizzes Value 20 %
- Final Project Value 10 %
- Career Profile Value 10 %
- Skills Logbook Value 5 %
- Class Marks Value 5 %

Expectations: It is my expectation that you will be in class on time, prepared to work and that you show respect towards others.

Quizzes: Quizzes will be given weekly or at the end of any given topic. Students may or may not be forewarned of these quizzes. If a student is absent for a Quiz for any reason, they will be responsible for making it up on their own time outside of class and will receive a zero until they write it.

Rewrites: Any quiz that has been failed may be rewritten for a maximum of 50%.

Projects: During this course students will be completing a wide variety of projects. These projects will be marked according to such parameters as appearance, attention to detail and accuracy, functionality, teamwork etc.... If any projects are not completed, the student will receive a zero, as well the value of their final exam will be increased accordingly.
Career Profile: Students will be required to research a career involving robotics and write a report on their findings. A rough draft will be due halfway through the course, with the final report and presentation due at the end of the course. If the Career Profile is not completed, the student will receive a zero, as well the value of their final exam will be increased accordingly.

Skills Logbook: Students will be responsible for maintaining a skills logbook to help promote self awareness, growth of their own personal skills.

Class Marks: Students will receive class marks on such things as attendance, attitude, time management, and preparation. For more information please see attached rubric.

Extra help: Extra help is available upon request.

Dear parents/students please read the outline above and discuss any concerns with me. I can be reached at:

Westisle Composite High School
P.O. Box 38 Elmsdale, P.E.I.
C0B 1K0
Fax: (902) 853-8638
Phone: (902) 853-8626

Tyne Valley residents can our toll free number (1-800-663-3338)

Please feel free to email me as well at rlharper@edu.pe.ca

I Have read and agree with the above course outline.

Student: ________________________________ Parent: ________________________________