Introduction

The Vex Curriculum is built around the fundamental understanding of the systems that make up robots and the development of workplace competencies. The cornerstone of the class involves solving engineering design problems. The teacher will be placed in the role of a facilitator/mentor, the student in the role of project manager/problem solver. Upon completion of the course the student will be able to:

a) Identify, formulate solutions for, and solve engineering technology problems using engineering design processes
b) Apply knowledge of mathematics, science and technology to solve robotic engineering technology problems
c) Function on multi-disciplinary teams
d) Communicate effectively using various forms of communications
e) Recognize the need for, and demonstrate the ability to, engage in life-long learning
f) Describe various methods used to manage and schedule projects
g) Participate in and/or conduct design reviews
h) Collect, analyze and interpret data

VEX KITS AND PARTS NEEDED

The Vex Curriculum is designed with two users in mind. In addition to the lists below, all users will need to decide what combination of batteries and power packs is best for them. (They must be bought separately).

The first user (Protobot plus) has
1. VEX Protobot Kit
2. Hardware and Metal Kit
3. Transmitter & Receiver Kit
4. VEX Microcontroller

But please note: One lesson included in the Protobot Plus Users needs one additional VEX accessory. “How Much Can a Motor Lift?” requires a limit switch.

The second user (VEX Superbundle) has
1. VEX Superbundle Kit

The Protobot Plus Kit user and the VEX Superbundle user are legacies from the earlier Starter Kit and Programming Kit, respectively.