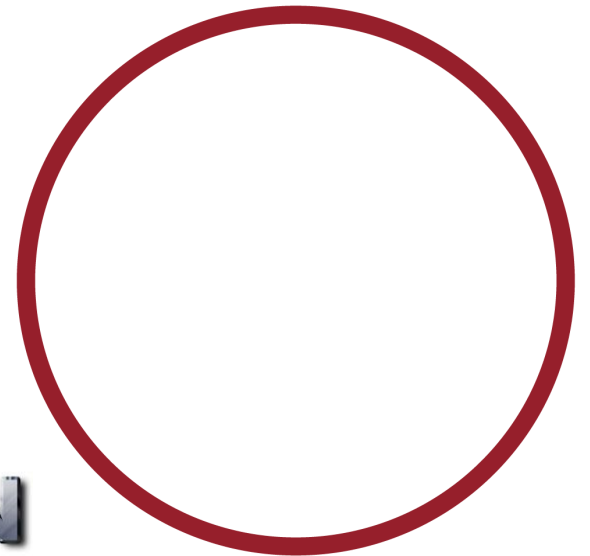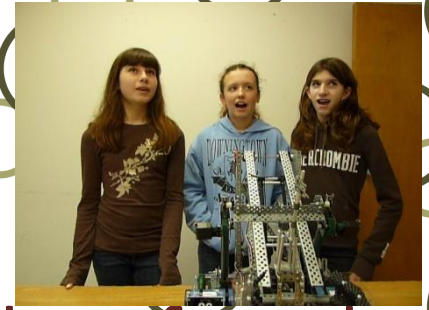**Downingtown Robotics**

Team 80

Design Challenge Video

VEX MEN

Video Objectives

This video will help show some key ideas found useful in this year's Vex game - Round Up

➢Programming tips

➢Robot structure

➢Keep charged batteries with you

Programming Tips

➢ Make functions for common actions
  – Keeps program simpler and more readable
➢ Make variables for key locations
  – Post heights on the arm
  – Tie buttons to functions that move to the right spots

Structure

➢ Cross bracing helps stop twist

➢ Use shaft collars to keep shafts in place

  – Extra metal sometimes needed to brace collar

➢ Having a light robot helps speed

➢ More than one motor helps keep it held up

Keep Charged Batteries

➢Easy way to lose is having no batteries charged

– Charge between matches

– Keep spare charged batteries in your pocket

– Never keep your robot on while not using them.

➢Always keep your robot on a leash

– Game controller cord should be plugged in

– No kicking into autonomous at power up

See You In Orlando!

➢ Hopefully it's warmer in Florida than in Pennsylvania!