

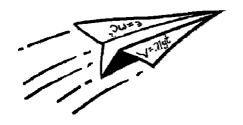
Getting Started in FTC

9/8/12 The Play Space, San Jose





Before We Start

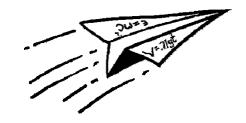


- We will barely scratch the surface
- A beginning, not a complete lesson
- ASK QUESTIONS!





Register Your Team

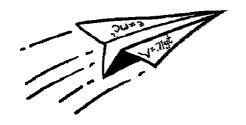


- If your haven't already ...
- Annual Requirement!
 - \$275 per team
 - Team number is "permanent"
- TIMS
 - Team Information Management System
 - Registration done by coach





Ordering Equipment



- Robot Kit
 - Kit of Parts [\$650]
 - Tetrix Base kit, includes LEGO Mindstorms NXT kit
 - Kit of Parts w/o NXT [\$450]
 - Just the Tetrix Base kit
 - Resource Kit [\$199]
 - More Tetrix parts
 - Samantha Module [\$65]





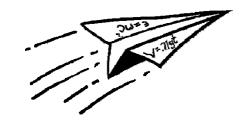
When the Equipment Comes

- "Start Here" Box & Binder
 - Basic intro
- Multimedia DVD
- More online ...





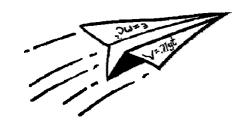
Building the Robot



- Start with the tutorials
 - Ranger
 - Mantis
 - Basic Construction
- Connection of all the control components
 - NXT Brick
 - Controllers (Motor & Servo)
 - Sensors, Motors, Servos



More Building



- READ
 - Robot Rules
 - Section 4 of Part 1
 - <RG*> rules
 - <R*> rules parts and materials
 - <RS*> rules software
- Materials beyond robot kit
 - "raw" materials





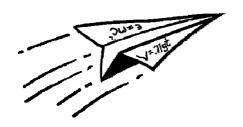
Programming the Robot

- Two Choices
 - RobotC
 - Separate purchase
 - LabVIEW
 - Included in base kit
- Tutorials available for both
- Always start from the templates!!!





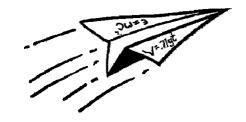
Control of the Robot



- Tethered to a computer
 - Computer
 - USB
 - Bluetooth
- Via Samantha
 - WiFi
 - Router
 - Computer



What is Samantha?

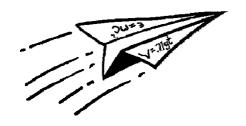


- WiFi Connection for Robot
- Usage Docs on FIRST website
- Practice Early
- Use it Often
- Watch out for Power!





Practice/Scrimmage

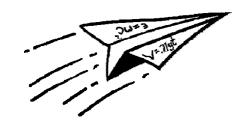


- Game play very different
 - Full field
 - 4 robots
 - All the game elements
 - Time clock





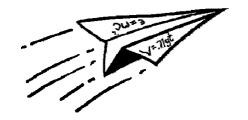
Tournaments



- Many Qualifiers
 - Nov, Dec, Jan, Feb
 - Can attend multiple
 - Rolling registration
- Championship
 - Planning for late Feb
 - Advancement to Championship
 - See Tournament portion of game manual



Questions/Answers?



• Ask them now!

