

Gear up for FTC 2010!

The 2010-2011 *FIRST* Tech Challenge kit brings with it more options than ever for both rookie and veteran teams.

This year's FTC Competition Kit has a lower cost, and has been streamlined to provide a solid foundation, but with plenty of room for robot customization.

The terrific growth of FTC and the adoption of MINDSTORMS and TETRIX in high school classrooms across the globe means more TETRIX parts are manufactured at a lower cost per part - and that savings is passed on to FTC teams. TETRIX metal gear prices have been reduced by more than 35% and teams will now receive a 30% discount on all spare parts.

Flexible Purchase Options

For Rookie Teams

A variety of options are available to teams new to FIRST Tech Challenge. A newly refined lower cost FTC Competition Kit comes complete with the basics necessary for competition, including:

- LEGO MINDSTORMS set
- Base set of TETRIX metal
- DC and servo motors
- Controllers
- Encoders
- Programming software
- WiFi communication module

Teams can then customize which additional building components to purchase for their specific design or choose to add on the new FTC Resource Kit. A lower-cost, identical kit is available without the LEGO MINDSTORMS set for teams who may already have it, or who are graduating from FIRST LEGO League.

Rookie teams may purchase either:

- The 2010 FTC Competition Kit or
- The 2010 FTC Competition Kit minus MINDSTORMS

In addition, rookie teams may purchase as many FTC Resource Kits as desired, and all TETRIX spare parts at a 30% discount.

Veteran Teams

Welcome back, veteran teams! New and available only to veteran teams is the 2010 FTC Software Renewal Kit, which enables teams to reuse their LEGO MINDSTORMS and TETRIX components and only update software and renew team licenses. The kit includes:

- Install CD and one-year FTC team license for *LabVIEW Education Edition*
- Install CD and one-year, 3-seat FTC team license for *ROBOTC 2.0*
- Install CD and one-year FTC team license for PTC's Pro/ENGINEER 3D CAD/CAM design software
- WiFi communication module

Veteran teams may instead repurchase a complete FTC Competition Kit or the kit minus LEGO

MINDSTORMS (both of which include software renewals as well as the wifi module) and the new FTC Resource Kit.

Veteran teams may purchase either:

- The 2010 FTC Competition Kit or
- The 2010 FTC Competition Kit minus MINDSTORMS or
- The 2010 FTC Software Renewal Kit.

In addition, veteran teams may purchase as many FTC Resource Kits as desired, and all TETRIX spare parts at a 30% discount.

Kit Options

- **2010 FTC Competition Kit - \$749**
A great foundation for FTC. Included are a TETRIX Education Base Set, a LEGO MINDSTORMS Education NXT Base Set, the new wifi communication module, a Logitech joystick controller, and all of the programming and design software necessary for competition.
- **2010 FTC Competition Kit minus LEGO MINDSTORMS - \$549**
A replica of the 2010 FTC Competition Kit minus the MINDSTORMS kit. Great for veteran and rookie teams alike, particularly graduating FIRST LEGO League teams.
- **2010 FTC Software Renewal Kit - \$69**
Available only to veteran teams, this kit contains all of the programming and design software necessary for FIRST Tech Challenge competition, plus the new wifi module

New for 2010

- **FTC Resource Kit for \$199:** a cost-effective way to purchase a large selection of TETRIX metal plus two additional DC motors and one Logitech joystick controller.
- Rechargeable MINDSTORMS NXT battery
- 30% discount on all TETRIX spare parts
- Extra MINDSTORMS touch sensor
- Wifi module to replace previous Bluetooth communication
- New TETRIX parts coming soon

In the Classroom

Take FTC from the competition to the classroom with these activities and curricula that enable you to repurpose your MINDSTORMS and TETRIX investment into a platform for teaching STEM.

ROBOTC: Curriculum for LEGO MINDSTORMS Education with TETRIX

A feature-rich, interactive engineering challenge curriculum designed for teachers and students who use MINDSTORMS, TETRIX, and ROBOTC in high school classrooms.

Intelligent Control

An activity set designed to teach the reading of live sensor data as students quickly build and control complex LEGO MINDSTORMS and TETRIX robots.

TETRIXmastery.com

An online resource for teachers and students covering controls, state machines, sensors, motors, and creating effective LabVIEW programming architecture.