



FIRST Tech Challenge



Ages \approx 12-18 (7th to 12th Grade)

4-H Project Record Book/Report

FTC is designed for students in grades 7-12 to compete head to head, using a sports model. Teams are responsible for designing, building, and programming their robots to compete in an alliance format against other teams. The robot kit is reusable from year-to-year and is programmed using a variety of languages. Teams, including coaches, mentors and volunteers, are required to develop strategy and build robots based on sound engineering principles. Awards are given for the competition as well as for community outreach, design, and other real-world accomplishments.

Name: _____ Date: _____

Age: _____ Years in 4-H _____ # of years in this program _____

Mailing Address: _____

County: _____ City: _____ State: _____ Zip: _____

Grade in School: _____ Name of School: _____

Your 4-H County: _____ Your 4-H Agent: _____

Club/Group: _____

Club Lead/Coach: _____

Parents/Guardian Name: _____

I personally prepared this record/report and it is a true record of my 4-H FTC Project.

4-H Member Signature: _____ Date: _____

Approval of this report:

Parents/Guardian: _____ Date: _____

4-H Leader/Coach: _____ Date: _____

Instructions:

- Complete a project record/report for your FTC Project and submit the report with all of the attachments. Use additional pages if needed.

SECTION 1: Objectives and Goals

What are your goal(s) for this FTC Season and what do you expect to learn?

SECTION 2: Project Bookkeeping Report for TEAM

Items	Expense	Income
Example (FTC Kit)		
Example (Publix Fundraiser)		\$300.00
TOTALS		

* you can add your Robot Bill of Materials

Profit or Loss:

This Season our Team Income Totals	\$
This Season our Team Expenses Totals	\$
Which gave our team a Net Profit or Loss of	

SECTION 2: Teamwork

FIRST Tech Challenge (FTC) Core Values:

Volunteers are integral to the FIRST community. The FIRST Tech Challenge relies on Volunteers to run the program at many levels, from managing a region to Mentoring an individual Team. FTC Affiliate Partners coordinate the program in each region or state. These FTC Partners fundraise, run Tournaments, hold workshops and demonstrations, market FTC locally, handle public relations, and recruit Volunteers and Teams. They are a tremendous resource for Mentors and FTC would not exist without them.

FIRST asks everyone who participates in FTC to uphold the following values:

- We act with integrity
- We are a Team.
- We do the work to get the job done with guidance from our Coaches and Mentors.
- We respect each other in the best spirit of Teamwork
- We honor the spirit of friendly competition.
- What we learn is more important than what we win.
- We behave with courtesy and compassion for others at all times
- We share our experiences with others.
- We display Gracious Professionalism in everything we do.
- We have fun.
- We encourage others to adopt these values.

Complete these questions if you can: (use additional paper if needed)

What was your favorite teamwork activity?

What challenges did your team have to overcome?

What were your team's Community Service and 4-H Service efforts?

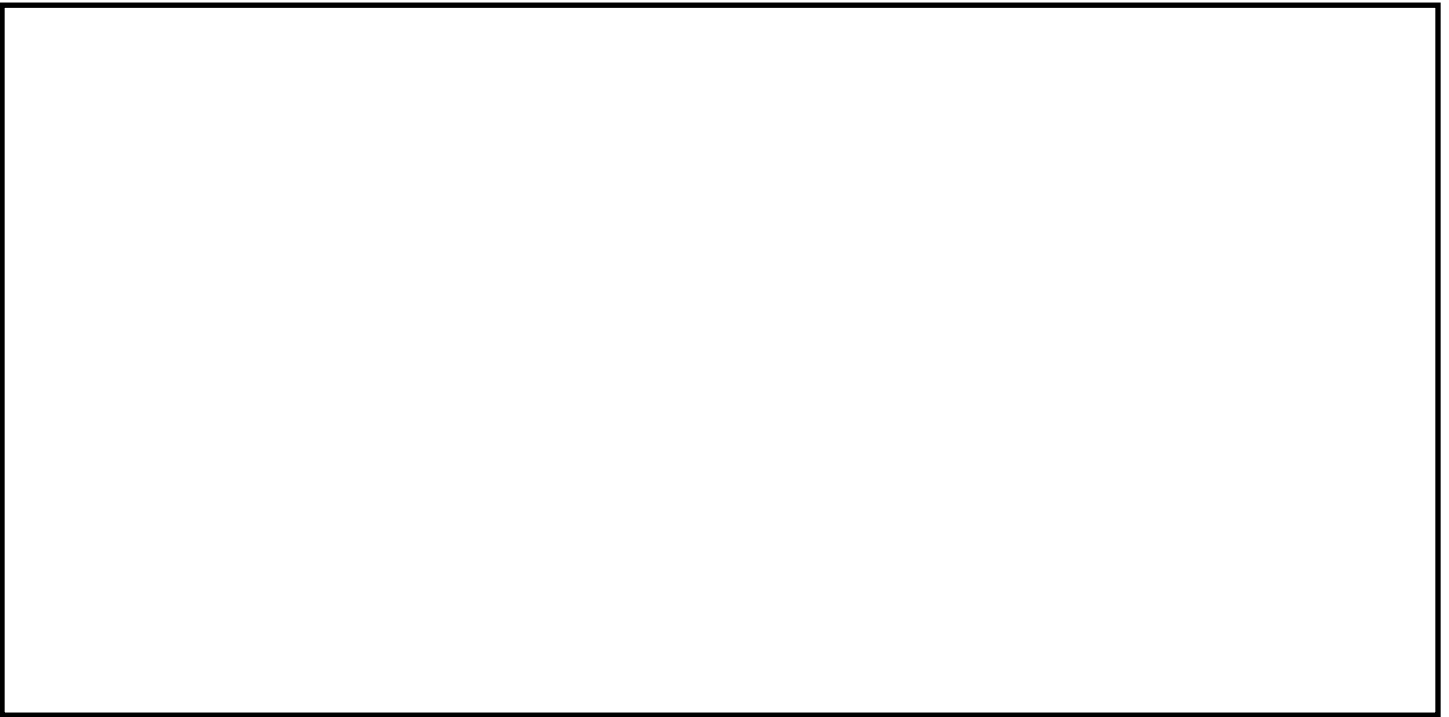
SECTION 3: 2014/2015 Game Challenge

This year's FTC challenge is: _____

Strategy Ideas:

SECTION 4: ROBOT DESIGN

Picture of our teams Robot Design concept:



Describe the mechanical design:

Programming Information:

Goals for Competition Events:

Changes Made to the Robot during Competition Season:

Resources can be found at:

<http://www.techbrick.com/Lego/Lego2013/Resources/ftc/index.html>

<http://www.usfirst.org/roboticsprograms/ftc/team-resources>

SECTION 5: COMPETITION EVENTS/AWARDS & RECOGNITION

FTC Awards Available, but not limited to:

- FTC Inspire Award
- Rockwell Collins Innovate Award
- PTC Design Award
- Connect Award
- Motivate Award
- Think Award
- Control Award
- Promote Award (Optional Award)
- Compass Award (Optional Award)
- Judges Award (Optional Award)
- Winning Alliance Award
- Finalist Alliance Award

SECTION 8: SEASON REVIEW

My favorite things in 4-H this year:

What I learned this FTC Season:

What challenges I faced this year and what I did about them:

A Proud Moment from this FTC Season:

What I would like to do next season:

SECTION 8: PROJECT ATTACHMENTS

PROJECT STORY

- Create a story of some of your experiences. Looking Back over the FIRST season and your year at 4-H. Think about the things you've learned and include how you might apply what you've learned to your life in the future.
- This story should not be no more than 2 pages, neatly written or typed (8 ½"x 11", one side only in 12 point double spaces font).

PROJECT PICTURES

- Attach photos (or you may provide drawings) of your project work throughout the year showing you and your project at the beginning, during the work being done, when completed, and at competitions. Don't forget to include pictures of you helping others in your citizenship activities too. Attach no more than three (3) pages (8 ½"x 11", one side only) of pictures to this report. Be sure to include a sentence about what you are doing in the picture.

PROJECT WORKSHEETS

- Attach any worksheets/paperwork that you have completed as evidence of your project accomplishments if applicable.
- Examples to include: Hardware Inspection Check List, Software Inspection Check List



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**EXPLODING
BACON**



With the Help of 4-H Exploding Bacon Robotics Club, *FIRST* Robotics Competition Team 1902.