

Hollis Brookline High School FIRST Robotics Team 1073 The Force Team 2010/2011 Season



Student, Parent and Mentor Handbook

Introduction

The purpose of the FIRST Robotics Team at Hollis Brookline High School is to inspire and prepare our students to become the talent pool, skilled workforce, leaders and technologically literate citizens of tomorrow. We follow the FIRST concept to provide an accessible, innovative program that builds self-confidence, knowledge and life skills, while motivating young people to pursue opportunities in science, technology and engineering.

This document outlines the expectations and criteria for participation on the FIRST Robotics team at Hollis Brookline High School.

About FIRST

FIRST (For Inspiration and Recognition of Science and Technology) is a non-profit, educational organization that was founded in 1989 to inspire and excite young people about science and technology by bringing together professional mentors with high school students from around the country. Dean Kamen, founder of FIRST, imagines a day when the act of invention - that is, the work of scientists, engineers, and technologists - is as revered in the popular culture as music, athletics and entertainment are today. The FIRST vision is to inspire in young people, their schools and communities, an appreciation of science and technology and an understanding that mastering these skills can enrich the lives of all.

The FIRST Robotics Competition (FRC) provides high school students with hands-on experience solving real-world problems. Student teams work with corporate and community sponsors to brainstorm, design, build, test, and compete with their robots. The process inspires students to learn more about science, math, technology, and to develop an enthusiasm for further studies in engineering and the sciences. The FRC challenges teams of students and their mentors to design and build a robot in a six-week timeframe, using a standard "kit of parts." The team has to analyze the game and strategize what type of robot would perform well. Typical teams meet months in advance of the building period to learn basic skills and be better prepared. The goal isn't simply to build a robot; the robot is a vehicle for learning much more. The real goal is building a collaborative team, a supportive community, and a solid strategy for problem-solving during the competition.

In addition to the FRC, FIRST also sponsors the FIRST Technology Challenge (FTC) for high school students, FIRST Lego League (FLL) for upper elementary and middle school students and Junior FIRST LEGO League (JrFLL) for elementary students. For more information about FIRST, visit their website at www.usfirst.org.

HBHS FIRST Robotics Background

FIRST Robotics began at HBHS in 2003 when Team 1073 was formed. Since the onset of this team, Team 1073 has met in the evenings and weekends to provide students the opportunity to learn about, get involved in, and develop a passion for technology, science and math. Many students have gone on to colleges in science and technology fields, many with FIRST scholarships. Although the year starts in September, the excitement peaks during an intense six-week teamwork effort in which a robot is designed and built to perform functions necessary to solve the challenge given by the FIRST organization. In the beginning of January, the team gathers in the Tech Center to view the presentation of the challenge, or Kick-Off, for the season. Planning, training, fundraising, and team building comprise the pre-season activities that lead up to the January Kick-Off and the robot development, or build-season, time frame. In early March 2011, the team will travel to the BAE Systems Granite State Regional (GSR) Competition in Manchester, N.H. Since 2009, the team attends a second regional competition to provide students the opportunity to run the team at a competition with very little to no mentor interference and in hopes that an additional competition would increase our chances of attending the World Championship Competition. In order to compete at the World Championship Competition, a team must win either a regional event, win the Chairman's Award, or become eligible

according to FIRST's criteria which can change annually. In 2011, the World Championship Competition will be held in St. Louis, MO. In addition to regional events, HBHS typically participates in local off-season competitions. Off-season competitions are usually one day in length and are local to Hollis and Brookline. Mayhem in Merrimack and River Rage in Manchester are two events we have attended annually over the last eight years. In 2009, the team also attended WPI's Battle Cry, a two-day event at Worcester Polytechnic Institute. This event was enjoyed by all, as WPI provided a scheduled evening of entertainment for all teams. And in 2010, the team competed at Beantown Blitz in Boston, MA. It is the team's hope that we continue to attend two regional competitions and as many off-season events as feasible.

Over the years, Team 1073 has received several awards for spirit, website, business organization, technical innovation and safety.

Awards won at Regional Competitions (Granite State Regional unless otherwise indicated)

- 2003 Rookie Award
- 2003 Website Award
- 2005 Safety Award
- 2007 Kleiner Perkins Caufield & Byers Entrepreneurship Award: for business plan and organization of student leads (CEO and VPs)
- 2007 Finalists
- 2009 Delphi's Driving Technology Award (received two of these awards – one each at GSR and Hartford): for the laptop/heads up display used by the driver/operator/coach
- 2010 Champions
- 2010 Coopertition Award, Motorola Quality Award and Woody Flowers Award

Awards won at off-season events:

- 2006 River Rage Champions – River Rage, Manchester, NH
- 2009 Best Battle Cry – Battle Cry, WPI, Worcester, MA
- 2009 Spirit Award – Mayhem in Merrimack, Merrimack, NH
- 2009 Best Robot Costume (R2D2) – River Rage, Manchester, NH
- 2010 Finalists - Beantown Blitz, Boston, MA
- 2010 Champions - Mayhem in Merrimack

The success of the team is not necessarily measured by the success of the robot at the competition or the awards received. The success of the team is measured by the ability of the team to instill the ideologies of FIRST, gracious professionalism, and to demonstrate the usefulness of science and technology.

Overview of a Typical Season

A typical year for the HBHS Robotics Team can be divided into 3 parts: Fall Season, Build Season and Spring. A calendar of some of the major events for the FIRST season is found in Appendix A.

Off-Season Fall

Like all school sponsored extracurricular activities, new students are recruited for the team during the first few weeks of the school year. The team begins meeting in September with pre-season activities. Meetings are held weekly, on Wednesdays, usually from 6:30-8:30 pm. During these meetings there is a short, all-hands informational exchange led by the student CEOs. Afterward, a team building activity, hands-on learning, or simple subgroup activities are conducted. In addition, there may be preparations for fundraising activities. A typical season can see up to \$20,000 in expenditure from Regional registrations, off-season events, team t-shirts, and the purchase of many mechanical and electrical parts required to build the robot. Fundraisers and donation request letters to businesses are prepared. Annually our team has hosted a FLL tournament as well as a JrFLL exhibition. Additional fundraisers in the past have included: Discount Ski Passes to Crotched Mountain, Car Show, Discount Monarch Tickets, EcoPhone electronics recycling, clean-up of the N.H. Motor Speedway, and various raffles. Students are expected to participate in all fundraising activities. Students are also asked to attend the weekly Wednesday meetings; however it is understandable if students are also involved in sports or other activities. Attendance will be taken at all meetings and may become a deciding factor if/when a limited number of students will be allowed to attend events that are not close

to home. And of course, school academics always take precedence over all extracurricular activities. Parents are also asked to support the fundraising activities in the fall. Much help is needed to host the FLL and JrFLL tournaments, and it will take the entire team to make sure the events are successful.

Build Season

Build Season is a six-week period that begins on Kick-Off day. This is typically the first or second Saturday in January, in which FIRST announces the challenge for the season. Team 1073 will assemble in the Tech Center on this Saturday to watch the webcast of the Kick-Off. One mentor and a few students will attend the Kick-Off in person, which tends to be at Southern New Hampshire University. At the completion of the Kick-Off the mentor and students at Kick-Off will collect the Kit of Parts (KOP) and return to HBHS. Meanwhile the students and mentors in the Tech Center will download the manual for the season, research details of the game, and start brainstorming.

Throughout the rest of January and February, until the robot ship date, the team will meet six days/week (excluding Fridays). Subteams (mechanical, electrical, software, business, strategy and integration) may meet at different schedules from each other. A Design Team will be assembled of volunteers from any subteam (it will be beneficial if a representative from each subgroup is present). The purpose of the Design Team will be to brainstorm and select a design for the robot based on the given challenge. The Design Team will meet daily (except Fridays) starting on Kick-Off and will end when the design is chosen and presented to the entire Team 1073. Once the design is chosen and presented, each subteam will be responsible to design, create, and test their portion of the selected design.

Subgroups will then determine their meeting schedule based on their tasks and due dates. It is desired that the robot or a model of the robot be finished in order to allow drivers, operators and human players an opportunity to practice driving and develop their game strategy. Strategy subgroup, along with developing a game strategy, will also be responsible for the construction of a practice field or game pieces.

Meetings will occur on Mondays – Thursdays (6:30 pm – 8:30 pm), Saturdays (9 am – 5 pm) and Sundays (10 am – 4 pm). Students will tend to work within their subgroups to accomplish the tasks required as identified and prioritized by each subgroup. Wednesday and Saturday meetings are considered all-hands meetings in which every student is expected to attend. In addition, students are expected to attend at least one other day in the week. Subgroups may determine their own appropriate days to meet in addition to the required all-hands days.

One week before ship date is Unveiling. This is a day that all BAE-sponsored teams are asked to bring their robot (or whatever they have at that point) to Nashua High School to display their accomplishments to date. All students are expected to attend Unveiling and parents and families are encouraged to attend.

Build Season ends on the day that the robot is required to be shipped (Ship Date). Ship Date is usually on a Tuesday, approximately six weeks after Kick-Off. On this date the robot is placed in its crate and picked up by the shipping company chosen by FIRST.

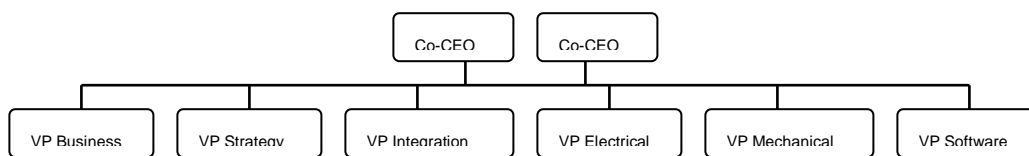
As a BAE Systems-sponsored team, Team 1073 is required to compete at the BAE Systems Granite State Regional in Manchester, NH. This is a three-day event in which all team members and their families are invited to attend. In addition, the team will attend a second regional.

Off-Season Spring

Spring season begins at the conclusion of the last regional event (whichever one is the latest). At this point, the team will meet every Wednesday from 6:30 pm – 8:30 pm as was done in the Fall. Students will determine which projects will be accomplished in the spring. In addition, off-season events may be attended. The team has competed in WPI's Battle Cry, Mayhem in Merrimack, Beantown Blitz and River Rage. It is up to the students, provided that we have the mentor and funding support, to decide which off-season events are attended.

Team Organization, Roles and Responsibilities

In 2007, Team 1073 developed an organizational structure that is continued to today. For this businesslike initiative and organization, we won the Kleiner Perkins Caufield & Byers Entrepreneurship Award at GSR. This organization has proved successful over the years. Our only modification was to appoint co-CEOs to ensure CEO coverage in case one student becomes sick or has to miss a meeting. Our 2010-11 organization includes two CEO's, and six Vice Presidents (VPs), and is shown below.



- Team CEO (qty 2): The Team CEO is responsible for conducting team meetings, providing general information to the team, and overseeing the Vice Presidents of all the subgroups. Two CEOs will be utilized to ensure constant CEO coverage for the team. Both will chair the meetings, unless one is sick or otherwise unable to attend. The CEOs will collect status reports from all VPs and check accomplishments against the agreed upon schedule.
- VP Business: The VP of Business is the lead student responsible for directing and coordinating the business tasks related to keeping Team 1073 a functional and successful club at HBHS. The tasks included, but are not limited to finances, T-shirt design and ordering, public relations, recording team attendance, updating the team website content, and fundraising. The Business VP will report status to the CEOs
- VP Strategy: The Strategy VP is the lead student responsible for keeping an up-to-date manual of the game, ensuring the rules of the game are known to all, and is in charge of the organizing, training and testing the team's coaches, drivers, operators, and human players. The Strategy VP may be but is not necessarily the coach for the driving teams. The Strategy VP is also responsible for the playing field mini-mockup as well as ensuring the construction of any necessary field components needed for robot and driver practice. The Strategy VP is the head of scouting at competitions unless otherwise delegated. The Strategy VP will report status to the CEOs.
- VP Electrical: The Electrical VP is responsible for all of the electronics of the robot. This includes but is not limited to the design and wiring of the electrical system necessary to operate the robot. The overall electrical design and selection of the sensors to be used on the robot is in cooperation between mechanical, electrical, and software. The wiring of the sensors on the robot is the responsibility of the Electrical group. The Electrical VP is responsible to ensure the electrical subgroup is knowledgeable in proper electronics safety measures and use of electronic tools for use of wiring the robot. The Electrical VP will report status to the CEOs.
- VP Mechanical: The Mechanical VP is responsible for managing the mechanical group involved with the design and construction of the robot. This VP is also responsible for the upkeep of the shop, all shop equipment, and ensuring safety in the shop at all times. The Mechanical VP will report status to the CEOs.
- VP Software: The Software VP is responsible for managing the software group and all software necessary to run the robot. This includes but is not limited to autonomous mode, remote control mode, and any other necessary features. The Software VP is responsible for distributing tasks at competition, such as pit duty, autonomous modifications, match analysis, software scouting, miscellaneous fixes and assistance, robot communications, as well as team spirit precipitation. The Software VP will report status to the CEOs.
- VP Integration: The Integration VP is responsible for the integration of the mechanical, electrical and software systems of the robot. The Integration VP will ensure that the strategies agreed upon by the team are being followed, that each subgroup has equal access to the robot, the completion and upkeep of the Bill of Materials, the space allocation, the weight budget, and that all design requirements are followed. The Integration VP will report status to the CEOs.

Team Responsibilities and Participation

The most important element of participating on the team is not the time commitment but the commitment to complete a task. When asked to accept a responsibility, team members are expected to see it to its completion. The effects of a critical task being delayed can be catastrophic, given the short time period involved.

All team members shall attend scheduled “All Hands” meetings. The purpose of these meetings will be to plan our activities, establish sub-teams and give status update of each subgroup. They generally serve as a forum for team members to have an opportunity to exchange ideas about any or all aspects of the program.

In addition to “All Hands” meetings, members will be expected to attend various subgroup meetings in which they are members. The individual team leaders will announce these meeting dates. Every effort will be made to coordinate these meetings with the overall project requirements as well as the member’s individual school and work schedules. A communication network will be established, E-mail and our website will be the prime means of communication, although other means will also play a role. A list of all team members’ phone numbers and email addresses will be distributed.

The team is comprised of both students and adults (mentors and parents). The following outlines the prerequisites and participation guidelines for both student and adult members of the teams. Some of these prerequisites and participation elements are shared; others are unique to each audience. Students and adults are to abide by the guidelines during all FIRST team activities and events. Failure to abide by these rules may result in the inability to attend competitions or possibly suspension from the team.

ALL Team Member Responsibilities:

- Commitment to complete a task in a timely manner.
- Commitment to work weeknights and weekends during the six-week development cycle for a minimum of three days per week.
- Active participation on the team.
- Team members must make every effort to attend and participate unless excused by the team leader’s approval.
- Ability to travel to competition events. Students/Parents are responsible for transportation to and from school and other specified events. Carpooling is encouraged whenever possible.
- Behave in a positive manner; uphold the gracious professionalism motto, keeping the team’s best interest in mind when meeting with the team or while out in the community.
- Communications in a timely manner is critical to the success of this team. Team members are responsible for checking their e-mail and our website for team notices in a timely manner.
- Treat all team and HBHS equipment with respect and care. Any damages shall be reported immediately to Ms. Hay. Any personal injuries shall also be reported to Ms. Hay.
- Agreement to wear the team “uniform” at competitions and other team events (team shirt).
- Participation in fundraising efforts.
- Read and sign the HBHS FIRST Robotics Team Membership Agreement (Appendix B).

Student Lead Responsibilities

- Maintain a ‘C’ or higher in all classes
- Attend all competitions
- Uphold Gracious Professionalism
- Delegate and inform a replacement VP if the normal VP is absent or put on probation
- Hold subgroup meetings after the opening meeting
- Attend all “Leads Meetings” and all-hands meetings

Student Participation and Responsibilities:

Working with adult mentors, students design and build a fully functional robot to perform the tasks required of the competition. Students learn about and participate in one or several aspects of the robot’s production such as,

machining, prototyping, building, wiring, programming, and controls. Likewise, some students may also contribute by working on a video, yearbook, website design, Chairman's Award, finance, and marketing.

Student Participation and Responsibilities include:

- Student team members must be a Hollis Brookline High School student or a private or home schooled student who resides in Hollis or Brookline and must be between 14 and 19 years of age and/or in grades 9-12.
- Maintain passing grades in all classes.
- Commitment to secure school assignments and make-up work impacted by competitive events or team activities.
- Uphold FIRST's gracious professionalism.
- Attend all meetings that are considered "All Hands" meetings/events.
- Attend meetings in addition to "all-hands" meeting in support of the chosen subgroup. During critical one or two weeks of build season this can be up to two to three meetings in addition to the "All-Hands" meetings.

Adult Participation and Responsibilities:

Acting in a mature and responsible manner, adults mentor the students throughout the course of the project. The role of the adults is to challenge the students to achieve their very best and to instill in them the sense that their potential is limitless. This is accomplished by demonstrating that science and technology can be fun and exciting through the building of the robot, along with spirit and media activities. Throughout the FIRST experience adults are required to abide by all school policies.

Adult Participation and Responsibilities include:

- Parents of student members are asked to assist the team in any of the following means:
 - Act as a Mentor on Team 1073
 - Volunteer time and/or baked goods at major fundraising events (example: FLL, JrFLL)
 - Provide transportation of their child(ren) to team meetings
- Adult mentors may be one of the following:
 - A faculty or staff member of Hollis Brookline High School
 - A parent of a student on the team
 - An outside participant approved by the team leader
- All adult mentors who will be working with students or transporting students (other than their own child(ren)) to events must complete a SAU-41 Background Check.
- Adult mentors can have access to the school computers and will be assigned a username and password after signing the SAU-41 Computer Acceptable Use Policies.

Expected Behavior for All

Gracious professionalism is the only acceptable behavior for all team members. As a team member, each student and adult represents Hollis Brookline High School and the FIRST organization. Whether one is involved in events with the local community or at other events, each individual's behavior is representative of their own team as well as the FIRST organization. All team members will be gracious, helpful, supportive, and will demonstrate sportsmanship in victory and defeat. Team members will display support of the objectives of the FIRST program. For these reasons, these expectations must be taken seriously.

Gracious Professionalism includes:

- Respect for the feelings, opinions and lifestyles of others team members
- Respect for tools and equipment
- Best behavior at all times
- Good sportsmanship
- A positive attitude

- A clean vocabulary
- Friendly and polite at all times to all persons and robots
- Card playing, dice games, radios, MP3 players and similar activities and devices are not allowed at team meetings or the events.
- Open displays of affection are not allowed. This includes but is not limited to hand-holding. Inappropriate behavior will not be tolerated.

Fundraising and Competition Expenses

Fundraising is very important to the functioning of the team and team-building. We need corporate/community sponsors who will fund registration fees for the competitions, tools, supplies, and other items necessary for the team. We may also run other fundraising events to help defray other costs such as uniforms and travel expenses.

- Although some expenses are subsidized, students are responsible for some competition expenses. These may include transportation, meals, incidentals, and general spending money.
- All students are expected to participate in organized fundraisers. The profits will be used to subsidize student/team expenses.
- Students experiencing difficulty with expenses are encouraged to speak to one of the lead mentors. No student will be denied team participation due solely to financial constraints.

Team Materials

- Any building materials, tools and all “Kit of Parts” items are not to leave the team’s building headquarters unless authorized by the mechanical team lead and Ms. Hay.
- All team members will be provided with team uniforms (shirts). It is the student’s responsibility to keep team uniforms in good condition and wear them at events, as required. Students are responsible for lost, damaged or stolen items.

Alcohol, Tobacco, and Drug Use

The team will not tolerate the illegal use of alcohol, tobacco, or illegal substances. All team members are to abide by all national, local, and school laws regarding these items.

Academic Probation

Academics take priority over participation in FIRST. Students will maintain a passing grade in all classes at all times. If a student is having difficulties in any class, they may ask for help from any team mentor or student. This can be done at team meetings where there are many students and adults available to assist in homework or studying for tests and quizzes. If a student is not passing at either progress reports or report cards, the student will notify the lead mentor and will be placed on academic probation. Lead students on academic probation will be asked to find a temporary replacement until their grades can be brought within passing. All team members on academic probation will only be allowed to attend Saturday all-hands meetings until all grades are passing.

Computer Usage

Hollis Brookline High School provides authorized use of telecommunications, computer and network resources to student and mentor team members. Any student or mentor team member using the HBHS computer network must sign the standard HBHS computer usage agreement. Individual accounts will be assigned and shall not be shared amongst other team members. Students may not use another student’s personal computer unless the owner of the computer is present and has given specific permission.

Disciplinary Action

Should violations to team rules occur, students shall be put on probation or removed from the team. These conditions can be temporary or permanent and will be evaluated on a case-by case basis by the Lead Mentors and CEOs. A student can be put on probation, suspended from the team, or removed from the team by violating a combination of the following (or by violating one significantly) of the following criteria:

- Students must be 14 years of age and enrolled in Hollis Brookline High School (or reside in Hollis or Brookline and attend a school that does not have a FIRST robotics team).
- Students must exhibit Gracious Professionalism at all times (meetings, competitions, and events).
- Students are expected to behave in a manner that portrays the team favorably amongst a professional community while at competition and/or wearing the team uniform (a team t-shirt)
- Students must maintain passing grades (a 'D' or better) in ALL classes. Lead students must maintain at least a 'C' in all classes.
- Students must attend all all-hands meetings during build season and off-season as well as one additional meeting during build season (besides Wednesday or Saturday).
- Students must be productive members of the team during meetings.
- Students must abide by all rules in this handbook.

Violation of one of these does not mean automatic disciplinary action unless it is a gross violation. If disciplinary action is necessary, students will be placed into one of two categories based on severity and prior disciplinary action. Students can redeem themselves and be promoted to a less harsh category if they show significant improvement. The categories are:

1. Probation
2. Suspension from the team

These can be permanent conditions if a severe event caused the student being placed there and significant improvement was not shown for a prolonged time. Situations will be evaluated by Lead Mentors and CEOs on a case-by-case basis.

Probation entails:

- Can only attend competitions if the team shirt is not worn and must find separate transportation. The team will not be responsible for supervision of the student while at the event. The student can still help the team (if they are productive) and can cheer with the team.
- The student can only attend all-hands meetings

Suspension entails:

- The student is NOT allowed to wear the team shirt (our uniform) to HBHS, events, or competitions
- The student cannot write that they are on a FIRST Robotics team for any time spent on suspension (for example, if a student is a member for one year then suspended, they can still count that one year, but no further)
- The student CANNOT attend a competition EXCEPT as a spectator and therefore cannot go into the team pit or sit with the team except with other team spectators (like parents, for example)
- The student is not allowed to attend any team meetings

Basically, a student who is suspended has privileges equal to any person who is not a member of the team in regards to the team except they cannot join the team again unless they have shown SIGNIFICANT improvement and have requested to rejoin. If improvement is shown, they will be put on probation on the team until enough improvement is shown to reinstate them as a full member of the team. All team members start out as full team members and it is not expected that this will be a significant issue.

Eligibility to Attend Competitions

All team members should plan to attend the Regional Competition (usually in Manchester in late February or early March). However, because of the travel costs involved, we may be limited in the number of students we can send to a second regional or to the Championship Competition in St. Louis and will only send a Travel Team. The determination of which students will be included in the Travel Team will be made by FIRST Team Mentor Board and will be dependent upon the following criteria:

- Written permission to attend by parents or guardian
- Passing grades during the previous marking period
- Review of any disciplinary action during the “in season” by the high school, the Team, and law enforcement
- Seniority (When the number of students are limited – seniors and those with the most years on the HBHS FIRST team will be given priority)
- Attendance at team meetings (This is important, and attendance will be taken)
- Gracious professionalism shown throughout the year
- Participation level during pre-season meetings, building season and during competitions (Are you working hard or just hanging out?)
- Participation in fundraising events
- Critical Team members – members who may be the only student who can perform a specific and necessary task – critical to the success of the robot at the event.
- Perform vital role for the team at competition (robot repair, driver, programmer, Chairman’s Award presenter)
- Respect for the rules outlined in this handbook

Transportation to/from Events

Students are not permitted to drive themselves or other students to HBHS FIRST Robotics events. Unless funding is available to hire a bus, we will use cars for transportation to all local events (such as an event in New England). HBHS FIRST Robotics mentors will drive students to and from events. Parents may drive their own child(ren) to and from an event(s), but may not transport other students without written consent from the other students’ parents. Students are expected to meet at the school and be returned to the high school after each event.

Appendix A: FIRST Robotics 2010/2011 Season Calendar (Mark your calendars NOW!!!)

October 30, 2010	River Rage (off-season event), Manchester, N.H.
November 20, 2010	FIRST Lego League (FLL) Competition, at HBHS (fundraiser – All Hands)
December 11, 2010	Junior FIRST Lego League Exhibition (JrFLL) at HBHS (fundraiser – All Hands)
January 08, 2011	KickOff - Southern New Hampshire University (for one mentor and two students) KickOff at HBHS, Tech Center (webcast) – All Hands
Jan 08 – Feb 22, 2011	Brainstorm, Design, Build, and Test our Robot
February 16, 2011	BAE Unveiling (estimated)
February 22, 2011	Ship Robot
March 3-5, 2011	BAE Granite State Regional Competition, Manchester, N.H. – Verizon Arena
March 2011	Second Regional TBD
April 27-30, 2011	FRC Championship in St. Louis, MO (if we can afford it), include Apr. 26 and May 1 for travel
<u>May 2011</u>	WPI Battle Cry, Worcester, Mass.
May 2011	Beantown Blitz (off-season event), Boston, Mass.
June 2011	Mayhem in Merrimack (off-season event), Merrimack High School, N.H.

Appendix B: HBHS FIRST Robotics Team Membership Agreement

To be a member of the HBHS FIRST Robotics Team, you must complete this form and return it to Ms. Sue Hay. Please neatly print the following information:

I am a ☐ Student Team Member ☐ Adult Team Member

Name: _____

Address: _____

Home Phone: _____ Cell: _____

Email: _____

Year in School (if applicable): ☐ senior ☐ junior ☐ sophomore ☐ Freshman

I have read, understood, and accept the expectations and criteria for participation on the Hollis Brookline High School 2010/2011 FIRST Robotics team set forth in this handbook.

Signature: _____

Date: _____

Permission from Parent or Guardian (required for Student Team Members)

I have read and understood the expectations and criteria for participation set forth in this document. I give my permission for my son/daughter to participate as a student team member on the Hollis Brookline High School FIRST Robotics team. (This includes permission to travel to River Rage, Mayhem in Merrimack, BAE's Unveiling, Beantown Blitz in Boston, and to the BAE Granite State Regional Competition in Manchester, NH. Additional individual permission slips may be sent home for any other trip away from HBHS during school hours.) Only adult mentors are permitted to drive to FIRST Robotics events. I also give my permission for my son/daughter to ride in the cars of the HBHS FIRST Robotics mentors.

Parent's or Guardian's Name _____

Parent or Guardian Address _____

Home phone: _____ Cell phone: _____

Email Address: _____

Signature: _____ Date: _____

Any Known Medical Issues/Concerns _____

Emergency contact other than above _____

Do you want to be on the parent e-mail list and receive team e-mails? Yes No