

## Period One - Project Plan

### Goals and Tasks for Botball 2019

<b>Game Goals and Tasks</b>	<b>Deadlines</b>
1. Review the game rules movie and game documents,	1/24/19
a. Have projector and screen ready to show movie	1/24/19
b. Copy game rules and distribute to team member for review	1/24/19
2. Brainstorm Strategies	1/29/19
A. Discuss game strategies and record them on dry erase board	1/29/19
B. Team captain will lead discussion on options and club will vote on the game strategies to use for the season	1/29/19
3. Build Practice Board	1/31/19
A. Build team will assemble list of supplies for teacher to purchase at Lowe's	1/31/19
B. Team leader and parent volunteers will help team assemble game board in the classroom	1/31/19

<b>Robot Building Goals and Tasks</b>	<b>Deadlines</b>
A. Prototype the Create and LEGO Robots,	2/5/19
1. Complete a labeled drawing of the concept for the Create robot based on the chosen strategy	2/5/19
2. Complete a labeled drawing of the concept for the LEGO robot based on the chosen strategy	2/5/19
B. Complete Construction of Create Robot	2/7/19
1. Construct upper level hook mechanism	2/7/19
2. Construct collection bin	2/5/19

3.Construct dumping mechanism	2/7/19
C. Complete Construction of Lego Robot	2/12/19
1.Complete construction of chassis	2/12/19
2.Construct scooping mechanism	2/12/19
3.Add line sensor	2/12/19

Programming Goals and Tasks	Deadlines
A.Run Test Programs	2/14/19
1.Program basic movements using the workshop demobot	2/14/19
2.Program precision turns using the workshop demobot	2/14/19
3.Program each sensor using the workshop demobot	2/14/19
B.Complete Program for Create Robot	2/19/19
1.Write pseudocode with building team for Create robot	2/19/19
2.Program upper level hook mechanism	2/19/19
3.Program collection bin movement	2/19/19
4.Program dumping mechanism	2/19/19
5.Test all programming for Create robot with build team	2/19/19
C. Complete Program of Lego Robot	2/22/19
1.Write pseudocode with building team for LEGO robot	2/22/19
2.Program precision turns	2/22/19
3.Program scooping movements	2/25/19
4.Program line sensor	2/25/19
5.Test all programming for LEGO robot with build team	2/25/19

<b>Documentation Goals and Tasks Deadlines</b>	
A.First Period Documentation Complete	1/28/19
1.Class meeting to set up overall schedule, assign tasks and decide on conflict resolution	1/28/19
2.Gather info from building and programming teams to establish goals and tasks for the season.	1/28/19
B.Second Period Documentations Complete	2/20/19
1.Gather data from build team for assignment ,	2/20/19
2.Gather data from programming team for assignment	2/20/19
C.Third Period Documentation Complete.	3/6/19
1.Set up computer for everyone to take survey	3/6/19
2.Gather info from team members for lessons learned	3/6/19

<b>5} Schedule Conflicts</b>	<b>Deadlines</b>
a. No conflicts Known	

## **Team Organization**

### **Schedule of Meeting Times:**

Regional Workshop - January 19&20

Regional tournament - March 9

Each meeting will run from 3:30 pm - 5 pm

Schedule for January - Tuesdays and Fridays

Schedule for February- Tuesdays and Fridays

Schedule for March- Tuesdays and Fridays

## **Division of Labor:**

Adult Team Leader: Mrs. Giles

Robot Building Team for Create robot: Zack, James and Paige

Robot Building for Lego robot: Robert\* and Alex

Programmers for Create robot: James and Zack

Programmers for Lego robot: Robert\*, James and Alex

Documentation Team: Robert\* and Jenessa

\*Robert is our student team leader

## **Conflict Resolution**

The team has agreed that if disagreements occur we will handle them in the following way:

1. Team members who are in disagreements will first attempt to work out the disagreements together. Team members agree to allow everyone to express their opinions and thoughts one at a time and attempt to reach resolution.
2. If resolution cannot be reached, the team members will bring their problem to Robert, the student team leader.
3. If a resolution is still not reached {or the disagreement involves the student team leader}, it will be brought to Mrs. Giles, the adult team leader. Mrs. Giles will either decide how to resolve the conflict or will bring it to the team for discussion and a team vote. Mrs. Giles decision or the team vote will be final.