

Period One – Project Plan

Goals and Tasks for Botball 2019

<i>Game Goals and Tasks</i>	<i>Deadlines</i>
1. Return to class and introduce game rules and procedures	1/14/2019
a. Make copies of game rules for each team members for discussion	1/14/2019
b. Show Botball trailer, game board, game pieces on Smartboard.	1/14/2019
2. Create goals and tasks for winning game.	1/15/2019
a. Write suggested goals and tasks for winning on Board	1/15/2019
b. Take pictures of written goals and tasks for winning	1/15/2019
c. Write goals and tasks for winning on PDF to save for document.	1/16/2019
3. Practice Board Construction	1/20/2019
a. Take inventory of building materials available	1/20/2019
b. Make list of building materials to purchase from Lantz Hardware or Tri-County Builders.	1/29/2019
c. Build game board in classroom with help of volunteers-Team Leader and parents/volunteer adults.	1/31/2019

<i>Robot Building Goals and Tasks</i>	<i>Deadlines</i>
1. Construct demobots of iCreate and LEGO robots	1/29/2019
a. Draw schematics for iCreate robot	1/29/2019
b. Draw schematics for LEGO robot	1/29/2019
2. Build iCreate robot	1/31/2019
a. Has a mechanism to get firemen to burning medical complex	1/31/2019
i. This mechanism will be made of 4 bar linkage, gear train, lever	1/31/2019
b. Put fire truck near burning medical complex	2/1/2019
c. Put large water container on burning skyscraper	2/1/2019
3. Build LEGO robot	2/4/2019
a. LEGO robot will have the camera	2/4/2019

b. LEGO robot will have mechanism that can extend upward.	2/5/2019
c. LEGO robot will be used to manipulate the people.	2/6/2019
d. LEGO robot will have touch sensors	2/6/2019
e. LEGO robot will have black line sensor	2/6/2019
f. LEGO robot will get care packages to disaster relief zone from black line	2/6/2019

<i>Programming Goals and Tasks</i>	<i>Deadlines</i>
1. Test programs for demobot	2/6/2019
a. Run basic programs for directional movements using demobot	2/6/2019
b. Run basic programs for left and right turns	2/6/2019
2. Finish programs for iCreate	2/6/2019
a. Bump sensor programming	2/6/2019
b. Programming for the Fireman manipulator/effector	2/6/2019
3. Finish programs for LEGO robot	2/6/2019
a. Programming for blackline sensor	2/6/2019
b. Programming for camera	2/6/2019

<i>Documentation Goals and Tasks</i>	<i>Deadlines</i>
1. Period One Documentation Complete	1/28/2019
a. Meet as class to schedule completion of documentation, programming, team organization, and scheduling conflicts	1/24/2019
b. Schedule tasks and goals completion dates for building and programming.	1/28/2019
2. Period Two Documentation Complete	2/14/2019
a. Interview and record information for the Build Team.	2/14/2019
b. Interview and record information for the Programming Team	2/14/2019
3. Period Three Documentation Complete	3/1/2019
a. Computer will be readied for team members to take survey	3/1/2019
b. Document team will interview and record team members' lessons learned.	3/1/2019

Schedule Conflicts

1. DECA Testing (2 Days)-- Team Captain Absent	1/24 /2019
2. Livestock show—two members absent	1/24/2019
3. Honor Band All-State Team—three members absent	1/25/2019
4. Basketball Tournament—one member absent	1/25/2019
5. No School- Teacher Professional Development Day	2/15/2019
6. No School – Holiday – Presidents' Day	2/18/2019
7. County Livestock Show (3 Days)—two members absent	2/28/2019

Team Organization

Schedule of Meeting Times

Oklahoma Regional Botball Workshop.....	1/12/2019-1/13/2019
Robotics Class– Monday-Friday, 9:00-9:50am.....	1/14/2019-3/8/2019
After-school Work Session – 3:30-5:30–January–23 rd , 28 th , 30 th	
After-school Work Session – 3:30-5:30–February–4 th , 6 th , 11 th , 13 th , 19 th , 21 th , 25 th , 27 th	
After-school Work Session – 3:30-5:30—March—4 th , 6 th	
Oklahoma Regional Botball Tournament.....	3/9/2019

Division of Labor

Adult Team Leader: Robin Jenkins

Game Board Builders: Nevaeh, John, Haysen, Albert

Robot Building Team for Create robot: Cyrus, Gabe, Christian, Colton*

Robot Building Team for LEGO robot: Ryan, Eliza, Mayson

Programmers for Create robot: Cyrus, Gabe, Christian, Colton*

Programmers for LEGO robot: Ryan, Eliza, Mayson

Documentation Team: Emma and Riane

*Colton is our student team leader

Conflict Resolution:

The Holdenville Robotics team has agreed to the following conflict resolution strategies in the event of a disagreement:

1. Conflict resolution strategy #1: Team members in conflict will begin by looking at the common shared group goal, reaching a fair and workable agreement. We will try to identify and discuss points of likeness between our ideas, plans and goals. We will treat each other with respect when resolving our conflict.
2. Conflict resolution strategy #2: If conflict is not resolved between team members, we need to try to overcome our individual opinions with the help of our student team leader. The student team leader will act as a mediator, who can help us see one another's point of view or give their view of the facts of the conflict.
3. Conflict resolution strategy #3: If the conflict is still not resolved after trying strategies #1 and #2, our Adult Team Leader will step in to resolve the conflict. The Adult Team Leader and the Student Team Leader will work together to find a satisfactory solution, creating a neutral ground.

