

Marine Leadership Academy 0205

BOTBALL Project Plan Period 1 Submission

Botball 2019 Team Goals and Tasks

<i>Game Goals and Tasks</i>		<i>Date Due</i>
1.	Review rules and game documents	1/24/19
	a. Share game rules with members.	1/22/19
	b. Share game video with members.	1/22/19
	c. Discuss game rules and video with members.	1/22/19
2.	Distribute Team Roles	1/24/19
	a. Discuss member roles	1/22/19
	b. Assign member Roles	1/22/19
3.	Build Arena	2/7/19
	a. Build Team will search for SKU numbers of parts for teacher to purchase from HomeDepot	1/29/19
	b. Build Team will call HomeDepot for a Quote	1/29/19
	c. Teacher will purchase supplies	1/31/19
	d. Build Team will measure and Cut out all PVC, Buildings according to the build instructions	2/5/19
4.	Brainstorm Strategies	2/7/19
	a. Discuss all game strategies	2/5/19
	b. Record all Strategies	2/5/19
	c. Vote on Strategies	2/7/19
<i>Robot Design Goals and Tasks</i>		<i>Date Due</i>
1.	Create a blueprint of a prototype for the Create Robot	2/14/19
	a. Sketch and label concept drawings of the Create robot.	2/12/19
	b. Vote on the best design for the Create Robot	2/12/19
2.	Create a blueprint of a prototype for the Lego/Demo Robot	2/14/19
	a. Sketch and label concept drawings of the Lego/Demo robot.	2/12/19
	b. Vote on the best design for the Lego/Demo Robot	2/12/19
3.	Complete Construction of the Create Robot	2/21/19
	a. Construct the mechanisms that will allow the create robot to lift its arm.	2/19/19
	b. Construct the Mechanism that will allow the create robot to grab poms and blocks.	2/19/19
	c. Attach sensors	2/19/19
4.	Complete Construction of the Lego/Demo Robot	2/21/19
	a. Construct the chassis	2/19/19
	b. Construct the mechanisms that will allow the Lego/Demo robot to lift its arm.	2/19/19

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	c. Construct the mechanisms that will allow the Lego/Demo robot to grasp poms and blocks.	2/19/19
	d. Mount wallaby and connect motors	2/19/19
	e. Attach sensors	2/21/19
<i>Programming Goals and Tasks</i>		<i>Date Due</i>
1.	Create and Run test programs	2/28/19
	a. Program basic movements	2/26/19
	b. Test point turns and swing turns	2/26/19
	c. Test the sensors	2/28/19
2.	Write program for the Create Robot	3/14/19
	a. Write Pseudo Code for Create	3/5/19
	b. Program moving arm	3/7/19
	c. Program grasping mechanism	3/12/19
	d. Test all Create Programming	3/14/19
3.	Write Program for the Lego/Demo Robot	3/21/19
	a. Write Pseudo code for Lego Robot	3/14/19
	b. Program moving servo horn arm	3/19/19
	c. Program grasping mechanism	3/19/19
	d. Test all Lego Robot Code	3/21/19
4.	Test and update code	4/4/19
	a. Create loops	3/26/19
	b. Create Variables	3/28/19
	c. Add sensor codes	4/2/19
<i>Documentation Goals and Tasks</i>		<i>Date Due</i>
1.	Period 1 Documentation	2/5/19
	a. Team Meeting	1/30/19
	b. Set up Schedule	1/30/19
	c. Assign Tasks	2/5/19
	d. Setup Teams	2/5/19
	e. Submit Period 1 Documentation	2/5/2019
2.	Period 2 Documentation	2/27/19
	a. Gather data from Build Team	2/21/19
	b. Gather data from Programming Team	2/26/19
	c. Submit Period 2 Documentation	2/27/2019
3.	Period 3 Documentation	4/3/19
	a. Distribute and submit survey	4/2/19
	b. Lessons Learned Discussion	4/2/19
	c. Submit Period 3 Documentation	4/3/2019

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Schedule Conflicts		
1. Sports		
	a. Drill Team	Overlapping Meetings
	b. Basketball Games	Some team members absent
	c. Drone Team	Concurrent Team with same members, extensive workload
2. School Closure		
	a. Weather Related Closings 1/30/19 & 1/31/19	No meeting due to cold All afterschool Classes cancelled
3. PSAT Testing		
	a. 2/14/19	Early dismissals no evening classes
	b. 3/28/19	

Team Organization	
Meeting Days	Tuesdays and Thursdays
Meeting Times	3:30pm to 5:00pm
WorkShop	January 20 th and 21 st 2019
Regional Competition	Sunday April 7 th 2019

Calendar of Events

January

Mon	Tues	Wed	Thur	Fri
21	22	23	24	25
28	29	30	31	

February

Mon	Tues	Wed	Thur	Fri
4	5	6	7	8
11	12	13	14	15
18	19	20	21	22
25	26	27	28	

March

Mon	Tues	Wed	Thur	Fri
4	5	6	7	8
11	12	13	14	15
18	19	20	21	22
25	26	27	28	29

April

Mon	Tues	Wed	Thur	Fri
1	2	3	4	5

Competition: Sunday April 7th 2019

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Division of Labor:

Coach: Mrs. Esmeralda Soto

Create Build Team: Jacob, Luis and Andres

Lego robot Build Team: Vicente, Alex and Ruyeliss

Create Programmers: Jacob and Christopher

Lego robot programmers: Lizbeth and Daniel

Documentation Team: Irais, Andres and Amiarah

Student Team Leader: Jacob

Conflict Resolution: Disagreements within the team will be handled in the following way.

1. Those in disagreement will first attempt to work out the disagreement together without resorting to violence or name-calling.
2. If after trying to resolve the conflict between them they still do not come to an agreement we will resort to getting advice from the team leader.
3. If resolution cannot be reached, the team members will bring their problem to Mrs. Soto, the coach who will bring it to the team for discussion and a team vote.