

Team Name: DeWitt Perry Middle School Team #1

Team Number: 0001

Region: Oklahoma

## Perry Team One-Project Plan

### Goals and Tasks for Botball 2019

#### Games, Goals, and Tasks

Goals and Tasks	Deadline
1. Understand the Botball Rules	1/17/19
a. Give all team members a copy of the rules b. Read and explain them individually	1/14/19 1/16/19
2. Build Gameboard	1/19/19
a. Get materials from Home Depot b. Assemble the board and place pieces on the board	1/12/19 1/19/19
3. Devise Game Plan for the Competition	1/26/19
a. Brainstorm game plan ideas and discuss with group b. Observe gameboard and determine which idea is the most efficient. c. Complete final plan	1/21/19 1/21/19 1/26/19

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### Robot Building Roles and Tasks

Goals and Tasks	Deadline
<b>1. Build the demo and create bot</b>	1/21/19
a. Build the demo bot using the instructions	1/20/19
b. Build the create robot using the instructions	1/21/19
<b>2. Add mechanisms to the create bot</b>	2/11/19
a. Build a crane mechanism	1/26/19
b. Add a scoop Building mechanism	2/3/19
c. Build a collection bin used to store items that are picked up	2/7/19
d. Add sensors and a camera	2/11/19
<b>3. Build the competition robot #1</b>	2/25/19
a. Build a skeleton of the robot with the basic design	2/14/19
b. Add servos and motors to the robot	2/18/19
c. Add a scooping mechanism and collection bin	2/22/19
d. Build up the robot and add Wallaby	2/25/19
<b>4. Build the second competition robot #2</b>	2/25/19
a. Build a workable skeleton	2/14/19
b. Add all sensors and motors. All electronics.	2/20/19
c. Build all cranes and additional accessories(sensors)	2/25/18

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### Programming Goals and Tasks

Goals and Tasks	Deadline
1. Run test/demo programs	1/31/19
a. Make programs for movement using demo bot actions	1/28/19
b. Programming sensors using demo bot actions	1/29/19
2. Finish program for create robot	2/15/19
a. Program movement for bot	2/7/19
b. Program arm movement for crane	2/9/19
C. Program claw movement for crane	2/12/19
D. program long sweeper for sweeping up objects	2/15/19
3. Complete Program for LEGO Robot	3/1/19
A. Program movement for bot	2/19/19
B. programming precision turns	2/22/19
C. program the scooping movement	2/25/19
D. program line sensor	2/28/19
E. test all the programming with the build team	3/1/19

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### Documentation Goals and Tasks

Goals and Tasks	Dates Dues:
1.First Period Documentation	1/25/19
a. Divide the team into groups to focus on one specific task	1/21/19
b. Establish goals and dates	1/23/19
2.Second Period Documentation	2/15/19
a. Understand problems we had to overcome	2/6/19
b. Create mechanical video and Github	2/10/19
3. Third period Documentation	3/2/19
a. Brainstorm lessons learned on notebook paper	2/25/19
b. Finalize writing	2/28/19
c. Finish surveys	2/28/19

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### Schedule Conflicts

Conflicts	Time
UIL - This caused us to cancelled a whole meeting and make many people to miss practices	1/17/19
Basketball - This causes 3 - 7 people to be missing on Thurs, Fri, and Sat, and causes 2 - 3 people to leave early on Wed.	Thursdays and saturdays during noon and wednesdays and Fridays
Swimming - This causes 3 people to be missing on Wednesdays, mondays, and Saturday mornings.	Wednesdays and mondays
Soccer - Causes one person to be missing every Saturday for 3 months in the spring, and 3 in the fall.	Saturdays
Martial Arts - Causes 5 people to miss out on in school meeting on Wednesday, Thursday, Monday, Tuesdays	Tuesdays, thursdays, mondays, and wednesdays
Hindi class- Causes one person to be missing some sundays	Sundays
Church - Causes one person to be missing sunday.	Every Sunday 11:00-12:30 (But it's in Prestonwood)
Math Class - Causes 2 people to be missing every Sunday in the Morning	Every Sunday Morning
Public Speaking Class - causes one person to be missing every sunday.	Every Sunday

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## Team Organization

### Meeting Times

Regional Workshop: January 12th

Regional Tournament: March 9th

Weekday Meetings run from 4:20 PM to 5:40 PM

Weekend Meetings will either run 9 AM to 1 PM or 1 PM to 5 PM

We meet Mondays, Wednesdays, and Saturdays every week. We occasionally meet Fridays and Sundays.

January: 20th, 21st, 23rd, 25th, 26th, 27th, 28th, 30th

February: 2nd, 4th, 6th, 9th, 10th, 11th, 13th, 16th, 18th, 20th, 23rd, 24th, 25th, 27th

March: 2nd and 3rd

Adult Leader: Mr. Culp

Appointed Student Leader: Kayla Goodrich

<u>Committees</u>	<u>People</u>
Programming	Sahil Anand, Kade Little, Soham Kinkabwala, Aahyan Salman, and Neil Kallem
Robot Building	Andrew Wixom, Rayaam Salman, and Aarav Kansupada
Documentation	Kayla Goodrich
Half n Half (Half Programming and Half Building)	Aditya Patra and Dhruv Pal

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**Conflict Resolution:**

Level 1: Group leader intervention - The group leader will discuss with affected group to see what is happening, getting both sides of the issue

Level 2: Teacher Intervention - The teacher will come view what the issue is and help the team manage the problem.

Level 3: Removal from group - If actions continue after level 1 and 2, the person will be removed from the group as decided by the teacher.