

Oklahoma - Weleetka High School - 18-0316

# Period One – Project Plan

## Goals and Tasks for Botball 2019

Game Goals and Tasks	Deadlines
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	2/4/19
a. Discuss game strategies and record them on dry erase board	1/31/19
b. Team captain will lead discussion on options and club will vote on the game strategies to use for the season	2/4/19
3. Build Practice Board	1/24/19
a. Build team will assemble list of supplies for teacher to purchase at Home Depot	1/10/19
b. Team leader and parent volunteers will help team assemble game board in the classroom	1/24/19

Robot Building Goals and Tasks	Deadlines
1. Prototype the Create and LEGO Robots	1/31/19
a. Complete a labeled drawing of the concept for the Create robot based on the chosen strategy	1/31/19
b. Complete a labeled drawing of the concept for the LEGO robot based on the chosen strategy	1/31/19
2. Complete Construction of Create Robot	2/11/19
a. Construct upper level hook mechanism	2/4/19
b. Construct collection bin	2/4/19
c. Construct dumping mechanism	2/10/19

3. Complete Construction of LEGO Robot	2/14/19
a. Complete construction of chassis	2/4/19
b. Construct scooping mechanism	2/7/19
c. Add line sensor	2/14/19

<b>Programming Goals and Tasks</b>	<b>Deadlines</b>
1. Run Test Programs	1/31/19
a. Program basic movements using the workshop demobot	1/28/19
b. Program precision turns using the workshop demobot	1/28/19
c. Program each sensor using the workshop demobot	1/28/19
2. Complete Program for Create Robot	2/28/19
a. Write pseudocode with building team for Create robot	2/18/19
b. Program upper level hook mechanism	2/25/19
c. Program collection bin movement	2/19/19
d. Program dumping mechanism	2/21/19
e. Test all programming for Create robot with build team	2/28/19
3. Complete Program for LEGO Robot	2/28/19
a. Write pseudocode with building team for LEGO robot	2/19/19
b. Program precision turns	2/19/19
c. Program scooping movement	2/25/19
d. Program line sensor	2/28/19
e. Test all programming for LEGO robot with build team	2/28/19

<b>Documentation Goals and Tasks</b>	<b>Deadlines</b>
1. First Period Documentation Complete	1/28/19
a. Group meeting to set the overall schedule, assign tasks and decide on conflict resolution	1/28/19

b. Gather info from building and programming teams to establish goals and tasks for the season	1/31/19
2. Second Period Documentation Complete	2/19/19
a. Gather data from build team for assignment	2/11/19
b. Gather data from programming team for assignment	2/19/19
3. Third Period Documentation Complete	3/4/19
a. Set up computer for everyone to take survey	3/4/19
b. Gather info from team members for lessons learned	2/28/19

Schedule Conflicts	Deadlines
1. Baseball Practice – one member absent	5/19/19
2. Basketball Game – one member absent	1/28/19
3. Holiday – school closed – no meeting	2/18/19
4. Orthodontist Appointment - one member absent	1/31/19

## Team Organization

### Schedule of Meeting Times:

Regional workshop – January - 12th and 13th

Regional tournament – March 9th

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

Schedule for January – 3rd, 10th, 24th, 28th, 31st

Schedule for February – 4th, 8th, 11th, 14th, 21st, 25th, 28th

Schedule for March – 4th, 7th

Mr. Hawkins will open the robotics room every day after school for members to work as they can.

### Division of Labor:

Adult Team Leader: *Zackery Hawkins*

Student Team Leaders: Klancey Kleck & Robert Hutchins

Robot Building Team for Create robot: Kell Kleck & Brett Davis

Robot Building Team for Lego robot: Teddy Deane & Preston Haney

Programmers for Create robot: Klancey Kleck & Anastasia Woods

Programmers for Lego robot: Robert Hutchins & Ethan Borrego

Documentation Team: Kelby Kleck, Aubrey Fletcher & Jordan Smith

### **Conflict Resolution:**

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

1. Disagreeing team members will try to resolve their differences through conversation and respectful debate.
2. This will be set to where the issue is to be settled between them before bringing this to the rest of the crew to discuss so that they may come up with an answer.
3. If resolution cannot be reached, the team members will bring their problem to Klancey or Robert, the student team leaders.
4. If a resolution has still not been reached, the issue will be taken to Mr. Hawkins.
5. If a resolution is still not reached (or the disagreement involves the student team leader), it will be brought to Mr. Hawkins, the adult team leader. Mr. Hawkins will either decide how to resolve the conflict or will bring it to the team for discussion and a team vote. Mr. Hawkins decision or the team vote will be finalized.