

# Oklahoma Region

## Sandite Junior Varsity-0651 Period One - Project Plan

### Goals and tasks for Botball 2019

#### 1) Game goals and tasks

**February 7, 2019**

##### a) **Review game rules and game documents**

**January 22, 2019**

i) Share game objectives with group

January 22, 2019

ii) Distribute rubrics

January 22, 2019

##### b) **Brainstorm Strategies**

**January 24, 2019**

i) Initial brainstorming session

January 22, 2019

ii) Team leader collects group thoughts

January 24, 2019

##### c) **Build Gameboard**

**January 31, 2019**

i) Identify game pieces

January 14, 2019

ii) Request Purchase Order

January 22, 2019

iii) Give gameboard specs to Masonic Lodge

January 22, 2019

iv) Give materials to Masonic Lodge

January 28, 2019

v) Game board final assembly

January 31, 2019

#### 2) Robot building goals and tasks

**January 31, 2019**

##### a) **Design robots according to strategy**

**January 24, 2019**

i) Detailed drawing of Demobot

January 22, 2019

ii) Detailed drawing of Create

January 22, 2019

##### b) **Complete final construction of Demobot**

**January 31, 2019**

i) Attach claws

January 28, 2019

ii) Attach sensors

January 31, 2019

iii) Attach camera

January 31, 2019

##### c) **Complete final construction of Create**

**January 31, 2019**

i) Attach external structure

January 28, 2019

ii) Attach sensors

January 31, 2019

iii) Attach camera

January 31, 2019

#### 3) Programming goals and tasks

**February 22, 2019**

##### a) **Run test programs**

**February 4, 2019**

i) Run basic programs

February 4, 2019

ii) Run specific tasks

February 7, 2019

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- |      |   |                             |
|------|---|-----------------------------|
| iii) | Run selected sensors                        | February 11, 2019           |
| b)   | <b>Complete Demobot programming</b>         | <b>February 21, 2019</b>    |
| i)   | Program basic path of Demobot               | February 14, 2019           |
| ii)  | Program the claw                            | February 14, 2019           |
| iii) | Program the sensors                         | February 19, 2019           |
| iv)  | Finalize all Demobot tasks                  | February 21, 2019           |
| c)   | <b>Complete Create programming</b>          | <b>February 21, 2019</b>    |
| i)   | Program basic path of Create                | February 14, 2019           |
| ii)  | Program the claw mechanism                  | February 14, 2019           |
| iii) | Program the sensors                         | February 19, 2019           |
| iv)  | Finalize all Create tasks                   | February 21, 2019           |
|      |   |                             |
| 4)   | <b><u>Documentation goals and tasks</u></b> | <b><u>March 6, 2019</u></b> |
| a)   | <b>First period documentation Complete</b>  | <b>January 28, 2019</b>     |
| i)   | Class meet and discuss schedule             | January 17, 2019            |
| ii)  | Selected members complete Project Plan      | January 22, 2019            |
| b)   | <b>Second period documentation Complete</b> | <b>February 20, 2019</b>    |
| i)   | Set up Github                               | February 4, 2019            |
| ii)  | Create mechanical design video              | February 7, 2019            |
| c)   | <b>Third period documentation Complete</b>  | <b>March 6, 2019</b>        |
| i)   | Submit Github code                          | February 28, 2019           |
| ii)  | Team members complete survey                | March 4, 2019               |
|      |   |                             |
| 5)   | <b><u>Schedule Conflicts</u></b>            |                             |
| a)   | Martin Luther King Day                      | January 21, 2019            |
| b)   | President's Day                             | February 19, 2019           |

## Team Organization

### 1) **Team meeting schedule**

All meeting days meet from 3:30-6.

- |    |                        |                               |
|----|------------------------|-------------------------------|
| a) | Regional Workshop      | January 12-13, 2019           |
| b) | Regional Competition   | March 9, 2019                 |
| c) | GCER                   | July 7 - 11, 2019             |
| d) | January meeting days:  | 7, 10, 14, 17, 22, 24, 28, 31 |
| e) | February meeting days: | 4, 7, 11, 14, 19, 21, 25, 28  |
| f) | March meeting days:    | 4, 5, 6, 7, 8                 |

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## 2) **Division of Labor**

- a) Adult Team Leaders: Mrs. Johnson, Coach
- b) Student Team Leaders: Cesar, Junior Varsity Captain
- c) Create Team: Nate, Tara
- d) Demobot Team: Cesar
- e) Documentation Team: Cesar, Nate, Tara

## 3) **Conflict Resolution**

Nate is the team mediator who will lead the group during a conflict and help the team:

- a) Identify the source of the conflict.
- b) Look beyond the incident.
- c) Request solutions.
- d) Identify solutions both sides can support.