

Period One – Project Plan

Goals and Tasks for Botball 2019

GAME GOALS AND TASKS

- | | |
|--|-------------------|
| 1. Talk over the game rules and game strategy. | <u>28.01.2019</u> |
| ▪ Get access to HomeBase, write the password on the whiteboard | 21.01.2019 |
| ▪ Analyse the game rules and write down initial ideas | 25.01.2019 |
| ▪ Print out game rules & board plan and place them near the whiteboard | 28.01.2019 |
|
2. Strategy | <u>6.02.2019</u> |
| ▪ Team members brainstorm and come up with their own ideas | 5.02.2019 |
| ▪ Note all of the ideas | 5.02.2019 |
| ▪ Best strategy chosen by voting and compromise | 5.02.2019 |
| ▪ Strategy is considered by the team and approved by the team leader | 5.02.2019 |
| ▪ Tasks are divided according to each of our skills and interests | 6.02.2019 |
|
3. The board | <u>19.02.2019</u> |
| ▪ Preparing a place for the game board at the school | 19.01.2019 |
| ▪ Ordering the parts with the help of our mentor Mrs. Karaś | 23.01.2019 |
| ▪ Ordering materials necessary for the game board | 19.01.2019 |
| ▪ Preparing the game board and installing it in the workplace | 19.02.2019 |
|
4. Have fun 😊 | <u>ALWAYS</u> |
| ▪ Feel the Spirit of Botball | ALWAYS |

ROBOT BUILDING GOALS AND TASKS

- | | |
|--|-------------------|
| 1. Building prototypes | <u>26.02.2019</u> |
| ▪ Building a mechanism to provide an expected action | 20.02.2019 |
| ▪ Make changes if necessary | 26.02.2019 |
|
2. Designing the LEGO Robot based on the strategy selected by the team | <u>18.03.2019</u> |
| ▪ Building the chassis of the robot | 4.03.2019 |
| ▪ Building the mechanisms according to the robot's function | 8.03.2019 |

- Mounting of sensors 11.03.2019
- Checks and corrections 18.03.2019

3. Designing the Create Robot based on the strategy selected by the team 18.03.2019

- Constructing the Create Robot chassis 4.03.2019
- Building the scooping mechanism 8.03.2019
- Installing the sensors 11.03.2019
- Final corrections 18.03.2019

PROGRAMMING GOALS AND TASKS

1. Robot's programs 29.04.2019

- Testing the programs 29.04.2019
- Basic movement program 4.04.2019
- Adding instructions for more complicated movements to the program 15.04.2019
- Finally adding sensor instructions 29.04.2019

2. LEGO Robot 29.04.2019

- Writing the initial program for moving around the board 29.04.2019
- Programming instruction for the motors 4.04.2019
- Programming instruction for the sensors 15.04.2019
- Final corrections 29.04.2019

3. Create Robot 29.04.2019

- Writing the initial program for moving around the board 29.04.2019
- Programming instruction for the motors 4.04.2019
- Programming instruction for the sensors 15.04.2019
- Final corrections 29.04.2019

DOCUMENTATION GOALS AND TASKS

1. First Period Documentation 16.02.2019

- Group meeting for analysing future plans and meetings 6.02.2019
- Conformation of the strategy and final draft 16.02.2019

2. Second Period Documentation 14.03.2019

- Review progress and outstanding actions 11.03.2019
- Photographic and written documentation of robots built so far 11.03.2019
- Carrying out tests of the sensors 14.03.2019

3. Third Period Documentation

10.04.2019

- Recording everything we have learnt since we began
- Final preparation for going to Malta
- Packing and safe robot transport

8.04.2019

10.04.2019

10.04.2019

SCHEDULE CONFLICTS

1. Days off and holidays

- Winter break
- Easter break
- Other competitions at the same time

11.02–25.02.2019

18.04–23.04.2019

8.04–14.04.2019

(This is the reason why Joanna Upchurch is not able to participate in the meetings in that time)

TEAM ORGANIZATION

1. Schedule of meetings

- First team meeting
- Meeting to analyse task division
- Regional Tournament in Leżajsk

14.01.2019

23.01.2019

09.05–11.05.2019

2. Meeting days (in red) (1 meeting – about 3-4h)

↑ ↓ [styczeń 2019](#)

poniedziałek	wtorek	środa	czwartek	piątek	sobota	niedziela
31.12 Sylwester New Year's Eve Sylwester ...	01.01 Nowy Rok Nowy Rok New Year's Day Nowy Rok	2 Dzień po Nowym roku i ☹️ <3	3	4	5	6 Święto Trzech Króli Epiphany
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21 Dzień Babci Dzień Martina Luthera I	22 Dzień Dziadka	23	24	25	26	27
28	29	30	31	01.02	2 Dzień Świszcza	3

↑ ↓ luty 2019

Dzisiaj Dzień Tydzień Miesiąc Rok ...

poniedziałek	wtorek	środa	czwartek	piątek	sobota	niedziela
28.01	29	30	31	01.02	2 Dzień Świszcza	3
4	5	6	7	8	9	10
11	12	13	14 Valentine's Day Walentynki	15	16	17
18 Dzień Prezydenta	19 ☀ 12°/3°	20 ☁ 8°/3°	21 ☁ 7°/-3°	22 ☀ 3°/-7°	23 ☁ 0°/-7°	24
25	26	27	28 Tłusty Czwartek	01.03	2	3

↑ ↓ marzec 2019

Dzisiaj Dzień Tydzień Miesiąc Rok ...

poniedziałek	wtorek	środa	czwartek	piątek	sobota	niedziela
25.02	26	27	28 Tłusty Czwartek	01.03	2	3
4	5 Ostatki	6 Środa Popielcowa	7	8	9	10
11	12	13	14	15	16	17 Dzień św. Patryka (Irlandia) Dzień św. Patryka
18 Dzień św. Patryka (Irlandia)	19	20	21	22	23	24
25	26	27	28	29	30	31

↑ ↓ kwiecień 2019

Dzisiaj Dzień Tydzień Miesiąc Rok ...

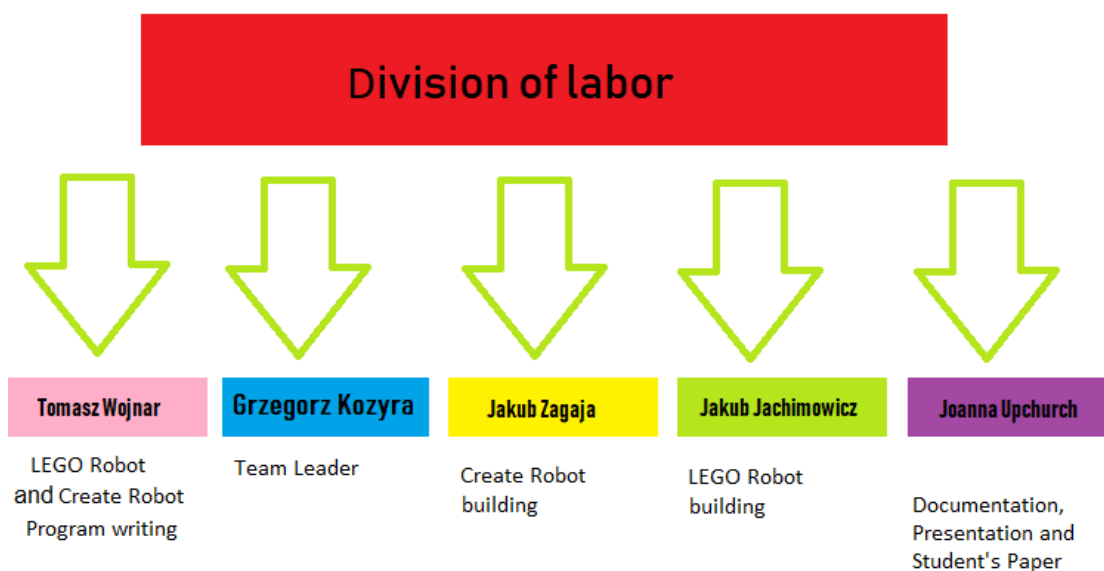
poniedziałek	wtorek	środa	czwartek	piątek	sobota	niedziela
01.04	2	3	4	5	6	7
8	9	10	11	12	13	14
15 Dzień Podatku	16	17	18	19 Wielki Piątek Wielki Piątek Good Friday	20 Holy Saturday	21 Wielkanoc Wielkanoc Easter Day...
22 Poniedziałek Wielkanoc Poniedziałek Wielkanoc Easter Monday	23	24 Dzień Pracowników Administracji i Usług	25	26	27	28
29	30	01.05 Święto Narodowe Labor Day / May Day	2 Dzień Flagi Rzeczypospolitej Day of the Flag	3 Dzień Konstytucji Constitution Day	4	5

↑ ↓ maj 2019

poniedziałek	wtorek	środa	czwartek	piątek	sobota	niedziela
29.04	30	01.05 Święto Narodowe Labor Day / May Day	2 Dzień Flagi Rzeczyposp Day of the Flag	3 Dzień Konstytucji Constitution Day	4	5
6	7	8	9	10	11	12 Dzień Matki

3. Members of the team and their positions

- Documentation, Students' paper and presentation: Joanna Upchurch
- Robot (LEGO and Create Robot) building: Jakub Jachimowicz and Jakub Zagaja
- Program writing (LEGO and Create) Robot: Tomasz Wojnar
- *Grzegorz Kozyra is the team leader.



4. Resolving problems

- I. First we discuss the problem amongst ourselves and try to reach a solution. We brainstorm and everyone has the chance to give their opinion on the subject. After this we vote and come to a joint agreement.
- II. If this is not successful we go to our team leader – Grzegorz Kozyra, who helps us to find a consensus.
- III. If the solution is still not reached we ask our teacher and mentor, Mrs. Karaś, for his advice. He considers all the options and helps us choose the best one.