Worksheet 3

Vehicle Number:

Student names:

*3rd Teaching Period*

**1st Activity**

Present at the whole class the results of your Homework.

Listen carefully to the presentations of the other teams. Do you agree with them?

**2nd Activity .**

Competition

**Members of the group**

**Name                                                                                  Role**

………………………………………………………………….Vehicle operator

………………………………………………………………….Programmer

………………………………………………………………….Measurements

**Member of another group**

………………………………………………………………….Observer.

1. Estimate the travel  time that your vehicle will need to cover a distance of 3 m.
2. Program the arduino UNO board with the estimated time.
3. Do the measurement of the deviation between the point your vehicle actually arrived and the finishing line. Before announcing the value to the whole class, make sure the Observer of the other group agrees with it.
4. Fulfil the table below with the deviation of your group and the deviations announced by the other groups.
5. Fill in the 5 place leaderboard with the number of the vehicle of the groups with the best predictions (smaller deviations)

Deviations by group/vehicle

|  |  |  |
| --- | --- | --- |
| Group/Vehicle Number | Deviation*Distance between the finishing line and the point of arrival of the vehicle*  | Order *Put the number 1 to the vehicle with the smallest deviation and number 8 to the vehicle with the biggest* |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |

Leaderboard

Fill in the column Number of vehicle with the number of the vehicle/group that achieved the smaller deviations in increasing order.

|  |  |
| --- | --- |
| Place | Number of vehicle |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |

**3rd Activity .**

What went right in your group’s predictions?

What went wrong?