**DYNAMICS WORKSHEET 1**

*Instructions*: please complete **Worksheet 1** by the end of the first session of your experiment.

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner’s Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part A**

**Table 1**: Data table for PART A.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(cm)** |  | **Time, (s)** | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **10** | **3.2** |  |  |  |  |  |  |  |  |  |  |  |
| **12** | **3.5** |  |  |  |  |  |  |  |  |  |  |  |
| **15** | **3.9** |  |  |  |  |  |  |  |  |  |  |  |
| **17** | **4.1** |  |  |  |  |  |  |  |  |  |  |  |
| **20** | **4.5** |  |  |  |  |  |  |  |  |  |  |  |
| **23** | **4.8** |  |  |  |  |  |  |  |  |  |  |  |
| **25** | **5.0** |  |  |  |  |  |  |  |  |  |  |  |
| **27** | **5.2** |  |  |  |  |  |  |  |  |  |  |  |
| **30** | **5.5** |  |  |  |  |  |  |  |  |  |  |  |
| **32** | **5.7** |  |  |  |  |  |  |  |  |  |  |  |
| **35** | **5.9** |  |  |  |  |  |  |  |  |  |  |  |
| **37** | **6.1** |  |  |  |  |  |  |  |  |  |  |  |
| **40** | **6.3** |  |  |  |  |  |  |  |  |  |  |  |

**DYNAMICS WORKSHEET 2**

*Instructions*: please complete **Worksheet 2** by the end of the second session of your experiment.

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner’s Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part B**

Mass of unloaded glider :\_\_\_\_\_\_\_\_\_\_ g

Length of card : \_\_\_\_\_\_\_\_\_\_ cm

**Table 2:** Data table for **PART B**.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(g)** |  | **Time, (s)** | | | | | | | **()** |  |
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**Part C**

**Table 3:** Data table for **PART C**.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Photogate Passes** | **Time (s)** | | | | | | **Average Time, (s)** |
|  |  |  |  |  |  |
| **Big Glider (before collision)** |  |  |  |  |  |  |  |
| **Small Glider (after collision)** |  |  |  |  |  |  |  |
| **Big Glider**  **(after collision)** |  |  |  |  |  |  |  |