## Prelab Questions

These questions need to be
completed before entering the lab.
Please show all workings.

| Marker's Initials |
|---|
|  |

**Prelab 1**

Using the coordinate system below, draw free body diagrams for mass A and
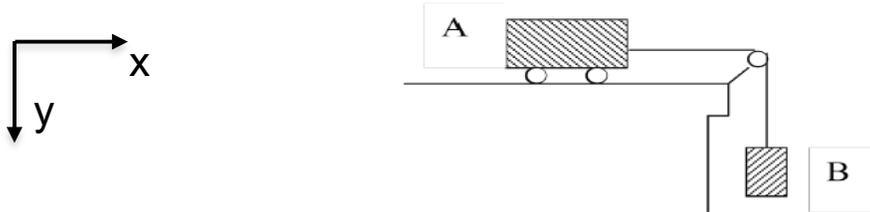mass B (Refer to Diagram 1).



**Diagram 1**

**Prelab 2**

Write $\vec{F}_{net} = m\vec{a}$ for each of the two masses.

| STAPLE YOUR PRE-LAB TO THIS PAGE |
|---|

**Laboratory Worksheet**

**Name and Student Number:** _____

**Partner's Name:** _____

**Date:** _____

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**QUESTION 1:**

**Table 1:**

| Run | $m_B$ (kg) | $W_B = m_B g$ (N) | $a$ $(m/s^2)$ |
|-----|------------|-------------------|---------------|
| 1   |            |                   |               |

***CHECKPOINT:*** Instructor Initial

| | | | |
|-----|------------|-------------------|---------------|
| 2   |            |                   |               |
| 3   |            |                   |               |
| 4   |            |                   |               |
| 5   |            |                   |               |
| 6   |            |                   |               |
| 7   |            |                   |               |

**TABLE 2**:  Note: Print a copy of the *weight vs acceleration* graph with correct
format.

|  | Value | Uncertainty |
|---|---|---|
| **Slope (**enter unit**)** |  |  |
| **y-intercept (**enter unit**)** |  |  |

**QUESTION 2:**

**TABLE 3:** Total mass measured by balance.

|  | Value (enter unit) | Uncertainty (enter unit) |
|---|---|---|
| **Total mass** |  |  |

**QUESTION 3:**

⬅ Staple graph to the opposite page

**QUESTION 4:**

**QUESTION 5:**

**QUESTION 6:**

**QUESTION 7:**

**QUESTION 8:**

**QUESTION 9:**