

Atwood's Machine

- Preliminary Questions

- Data/Observation

- sample graph (v-t, slope)

- data table

- Analysis

- 1 } sample calculation
- 2 }

3. Graph a vs Δm / State the proportionality

4. Graph a vs m_T / State the proportionality

5. Combine proportionalities and find k .

Insert Table from EXCEL \Rightarrow write a specific equation (10 totals \downarrow mean)
 \Rightarrow show a sample calc for k .

- Extensions

1. Derive an expression for acceleration and compare to the expression in #5.

2. - Calc the theoretical acc using Δm and m_T and the equation derived (EXT #1)

Insert Table from EXCEL \rightarrow

- Show a sample calc
- Calc % error for each trial
- show a sample calc.

3. Find the unknown mass (use experimental equation)

- show work.