How does weight effect speed?

Hypothesis:

If\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Controlled Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Visually try:

Roll a car down the ramp. Pick a car of different weight and roll it down the ramp.

Does weight seem to affect the speed? Yes/No (circle one)

Procedure:

Write out your own procedure. Be specific on how you set it up. Remember you are only changing the weight of the car. All other variables must be controlled.

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Data Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| System # | Mass of system | Weight of system | Distance | Time | Speed |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

Percent difference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-

Conclusion:

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Sources of Error:

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