

SCI 9 (Burnett) U2A1 - BB Tube (Sample Data)

Research Question - What relationship, if any, exists between the bb's position as the time allowed to move in the tube is increased?

Independent Variable - **Time allowed to for BB to move (sec)**

Dependent Variable - **BB's position (cm)**

Title

The Effect of ____ **Time allowed to move** ____ (independent variable)
on ____ **the BB's Position in the tube** ____ (dependent variable)

Hypothesis

If ____ **time allowed to move increases** ____
then ____ **the BB's position in the tube will increase.** ____

Constants

1. **Number of books**
 2. **Interval of time increases (2 seconds)**
 3. **Fluid in the tube**
 4. **Release position of the BB**
 5. **Person timing**
 - 6.
- Etc...

Data

Independent Variable	Dependent Variable Position (cm)				
Time(s)	Trial 1	Trail 2	Trial 3	Trial 4	Trial 5
2	19	18	15	15	16
4	26	28	26	32	27
6	42	48	47	48	43
8	58	59	58	60	58
10	71	74	70	72	74

Graph

Using [U2Ex1](#) - Example of how to create a scatter plot graph with Google, create a scatter plot graph of your groups data or the sample data above.

Research Question - What relationship, if any, exists between the bb's position as the time allowed to move in the tube is increased?

Answer

For every **1 second that time increases** (Change in Independent V)

The **BB's position increases by 7.17 cm** (This happens to the Dependent V)