**Variable #1**: Does the length of string affect the period of a pendulum?

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| **Average Period** | **Length of string** | | | | |
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| **Trial 1** |  |  |  |  |  |
| **Trial 2** |  |  |  |  |  |
| **Trial 3** |  |  |  |  |  |
| **Trial 4** |  |  |  |  |  |
| **Trial 5** |  |  |  |  |  |
| **Average** |  |  |  |  |  |

**Graph:** *Construct a* ***line graph*** *showing the length of string vs. average period*

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**Variable #2:** How does changing the mass of the pendulum affect the period of the pendulum?

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| **Average Period** | **Mass** | | | | |
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| **Trial 1** |  |  |  |  |  |
| **Trial 2** |  |  |  |  |  |
| **Trial 3** |  |  |  |  |  |
| **Trial 4** |  |  |  |  |  |
| **Trial 5** |  |  |  |  |  |
| **Average** |  |  |  |  |  |

**Graph:**

*Construct a* ***bar graph*** *showing the mass and the average period for your data.*

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**Variable #2:** How does changing the initial angle of the pendulum affect the period of the pendulum?

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| --- | --- | --- | --- | --- | --- |
| **Average Period** | **Initial Angle** | | | | |
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| **Trial 1** |  |  |  |  |  |
| **Trial 2** |  |  |  |  |  |
| **Trial 3** |  |  |  |  |  |
| **Trial 4** |  |  |  |  |  |
| **Trial 5** |  |  |  |  |  |
| **Average** |  |  |  |  |  |

**Graph:**

*Construct a* ***line graph*** *showing the initial angle and the average period for your data.*

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