

Central Net Force Particle Model: Circular Motion Lab Analysis Guide

Experiment 1: F_{net} vs speed

list constants (name, value & units)

- 1.
- 2.

State the proportionality between your independent and dependent variables.

Sketch and label linearized graph:



Equation for graph:

Show the combination of your constants that equals the slope of your graph. Watch units!

Proposed general equation:

Experiment 2: F_{net} vs. mass

list constants (name, value & units)

- 1.
- 2.

State the proportionality between your independent and dependent variables.

Sketch and label linearized graph:



Equation for graph:

Show the combination of your constants that equals the slope of your graph. Watch units!

Proposed general equation:

Experiment 3: F_{net} vs. radius

list constants (name, value & units)

- 1.
- 2.

State the proportionality between your independent and dependent variables.

Sketch and label linearized graph:



Equation for graph:

Show the combination of your constants that equals the slope of your graph. Watch units!

Proposed general equation: