

- PS 1 Students will correctly identify variables in experiments. ([Strand 1](#))
- PS 2 Students will select and correctly use appropriate measurement tools to measure physical properties. ([Strand 1](#))
- PS 3 Students will create and appropriately label a graph of measured data. ([Strand 1](#))
- PS 4 Students will correctly interpret the graphical representation of data. ([Strand 1](#))
- PS 5 Students will use an appropriate math formula to calculate velocity. ([Strand 2](#))
- PS 6 Students will describe momentum. ([Strand 2](#))
- PS 7 Students will create simple free body diagrams and identify the forces. ([Strand 3](#))
- PS 8 Students will use an appropriate math formula to calculate acceleration. ([Strand 3](#))
- PS 9 Students will determine kinetic, gravitational, elastic, and dissipated energy. ([Strand 4](#))
- PS 10 Students will calculate work in, work out, and efficiency. ([Strand 4](#))
- PS 11 Students will explain energy loss in terms of the Law of Conservation of Energy. ([Strand 4](#))
- PS 12 Students will diagram and analyze series and parallel circuits. (Strand 5)
- PS 13 Students will correctly measure resistance, voltage, and amperage in circuits using a multimeter. (Strand 5)
- PS 14 Students will observe, analyze, and report characteristics of waves. (Strand 6)
- PS 15 Students will determine the amplitude of a wave using an oscilloscope or a simulator. (Strand 6)
- PS 16 Students will determine the period of a wave using an oscilloscope or a simulator. (Strand 6)



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- PS 17 Students will use an appropriate formula to calculate the frequency of a wave. (Strand 6)
- PS 18 Students will measure changes in thermal properties (heating or cooling). (Strand 7)
- PS 19 Students will relate the strength of the gravitational force to the distance between two objects and the mass of the objects. ([Standard 3-1](#))
- PS 20 Students will describe the factors that affect the electric force. ([Standard 3-2](#))