Unit: Energy

PS3.1
Analyze the properties and compare the sources of kinetic, elastic potential, gravitational potential, electric potential, chemical, and thermal energy.

PS3.3
Analyze and interpret data to show the relationship between kinetic energy and the mass of an object and its speed.

PS3.2
Construct a scientific explanation of the transformation between potential and kinetic energy.

ETS1.2
Design and test different solutions that impact energy transfer.

PS3.4
Conduct an investigation to demonstrate the way that heat (thermal energy) moves among objects through radiation, conduction, or convection.

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Energy:
The student will analyze the properties and relationship among the types of potential and kinetic energies and how they can be transferred to one another.