

# 6th Grade Science Power Standards

## Practice of Engineering

- I can identify a common engineered system and evaluate its impact on the daily life of humans and recognize that new technologies have benefits and consequences and may require making a tradeoff in terms of features, performance, durability and cost.
- I can explain the importance of learning from past failures, in order to inform future designs of similar products or systems.
- I can describe and execute the engineering system: Ask, imagine, plan, create, test, improve, communicate.
- I can identify open and closed system and describe its processes and parts.
- I can estimate using metric units to estimate and measure.

## Physical Science

- Matter
  - I can make a model to identify the properties of matter.
  - I can distinguish between physical and chemical changes.
  - I can describe the conservation of matter.
- Motion
  - I can calculate speed and use graphs to demonstrate speed as a function of time.
  - I can identify balanced and unbalanced forces.
  - I can identify the forces acting on an object and describe how the sum of the forces affects the motion of the object.
  - I can distinguish between mass and weight.
- Energy
  - I can describe properties of waves in sound energy, thermal energy, and light energy.
  - I can differentiate between kinetic and potential energy.
  - I can trace the changes of energy forms.