

Sixth Grade Science Power Standards (11/16)

1. **Process Skills & Practices (before investigations):** Students can recognize scientifically testable questions, can plan safe investigations, can make plausible predictions, and can create data tables.
2. **Process Skills & Practices (during investigations):** Students can control variables, measure accurately, and complete data tables.
3. **Process Skills & Practices (after investigations):** Students can analyze, interpret, and graph data, and can engage in argument from evidence.
4. **Properties of Matter:** Students can define matter and identify its three common states. Students can explain that matter is made of tiny constituent pieces (atoms and molecules). Students can also explain that matter can change forms, but cannot be created or destroyed.
5. **Properties of Energy:** Students can define energy. They can also identify specific types of energy in everyday situations (e.g. potential, kinetic, sound, light, electrical, etc.). Students can explain that energy can change forms, but cannot be created or destroyed.
6. **Motion & Stability: Forces and Interactions:** Students can identify the forces that change an object's motion. They can also demonstrate that some forces act at a distance (have fields) and other forces are contact forces.
7. **Life Science:** Students can identify the cell as the basic unit of life. Organisms are either single-celled or multi-celled. They can also describe how both types of organisms reproduce and pass traits to offspring.