

# Physical Science - Matter

## Standards

- MS-PS1-2. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.
- MS-PS1-4 Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.
- MS-PS3-4 Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.

## Vocabulary

- Matter
- Solid
- Liquid
- Gas
- Particles
- Atom
- Volume
- Condensation
- Evaporation
- Mass
- Density
- Weight
- Physical Change
- Chemical Change

## Learning Objectives

1. Describe the molecule make up in a solid, liquid, and gas.
2. Describe how a solid, liquid, or gas can change their state.
3. What is the difference between mass and weight?
4. What is the difference between a physical and chemical change?