

Matter – anything that has mass and takes up space

The three common forms of matter are **solid**, **liquid**, and **gas**.

The particle theory of matter can give us a better understanding of the differences between solids, liquids, and gases.

Particle Theory:

- All matter is made up of tiny particles
- There are spaces between these particles
- Particles are always moving
- More energy = faster movement
- Particles in matter are attracted to each other

Solids

- The particles are locked in place
- There is little free space between the particles.
- The particles do not move or slide past each other easily.

Liquids

- The particles are not locked in place
- There is little free space between the particles. There is more in-between space than in a solid.
- The particles can move or slide past each other easily.

Gases

- The particles are not locked in place
- There is lots of free space between the particles.
- The particles do can move past each other easily.