

Name: _____

States of Matter

Matter is anything that takes up space. All matter is made up of tiny particles.

Most matter is one of three forms, called **states of matter**. The three main states of matter are **gas**, **liquid**, and **solid**. Their particles act in different ways.

Water can help you understand the states of matter because it comes in all three states. It changes state when heated or cooled.

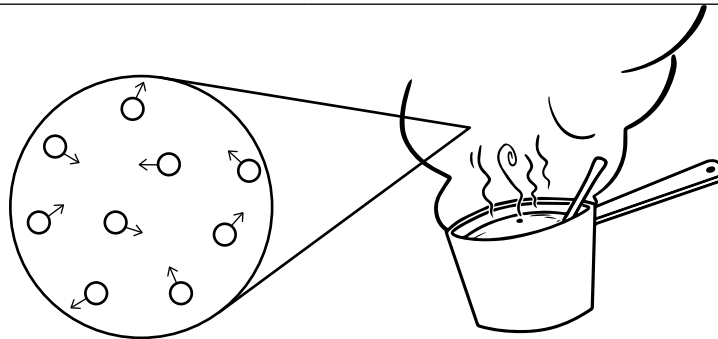
Particles

Form of Water

Gas

The particles in gases are spread far apart. They move around a lot.

Gases change shape and spread out to fill all the space in a container.

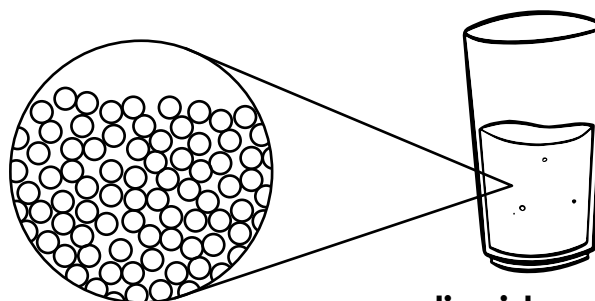


water vapor

Liquid

The particles in liquids are closer together. They still move around a bit and slide against each other.

Liquids change shape to fill the same amount of space in any container.

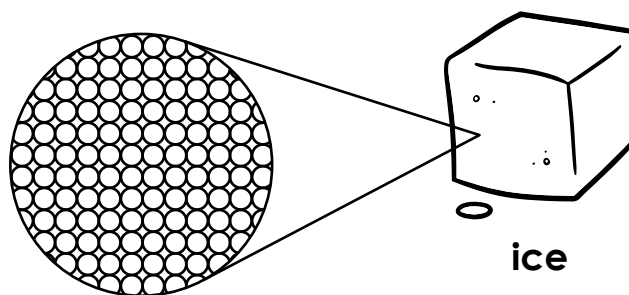


liquid water

Solid

The particles in solids are packed tightly together. They barely move at all.

Solids do not change shape.



ice