

Matter can exist in different forms.

Matter can change when heated or cooled.

cooling steam turns it back into water, and cooling water turns it back into ice

boiling water changes it into steam (a gas).

your breath contains water vapor, which is a gas?

These forms are called the states of matter.

Gases do not have a fixed shape or volume (e.g., air) and spread out to fill the space they are in.

heating ice (a solid) turns it into water (a liquid).

Matter comes in three states: solid, liquid, and gas.

States of Matter

Solids have a fixed shape and do not change easily (e.g., pencil, rock, chair).

scientists have discovered more than three states of matter, including plasma!

Liquids take the shape of their container but have a definite volume (e.g., water, juice).

Water can be a solid, liquid, or gas.

the sun causes puddles to disappear by turning water into gas through evaporation.