

Solids, Liquids, and Gases

Note-taking Guide - Answer Key

*spreads, farther, vibrate, shape, quickly, gases, container, volume,
liquid, inside, solids, move, definite*

The shape of the block remains the same. The volume of the block, which is the amount of space that it takes up, has not changed either.

Solids hold their own shape because the particles that make up matter are tightly packed together with very little space between them.

The particles are packed so tightly that they can only move back and forth, or vibrate, in place.

The orange juice takes the shape of the container, but the volume of the juice does not change.

Matter that has no definite shape, but that has a definite volume is classified as a liquid.

The particles in liquids are not as tightly packed as in solids and are able to move past each other.

They move more quickly than the particles in a solid.

The air inside the balloon spreads out into the room.

This is because air has no definite shape and no definite volume. Such matter is known as gases.

When a gas is put inside a container, it spreads out and takes the shape of the container.

The particles that make up gases are much farther apart than in liquids and move very quickly.