LESSON 13

Changes in Particles

READ ALOUD PASSAGE

Now that we know all matter is made of tiny particles, we can use that idea to explain why solids, liquids, and gases behave so differently. In a solid, the particles are packed very close together and held tightly in place. They vibrate a little, but they do not move past each other. This is why a solid keeps its shape.

In a liquid, the particles can slide past each other and move around freely. This is why a liquid flows and takes the shape of its container. In a gas, the particles move very fast and spread far apart. This is why gases spread out to fill any container they are in.

Activity 1

Circle True or False for each statement.

1. True / False In solids, particles are packed tightly and barely move.
2. True / False In gases, particles move slowly and stay close together.
3. True / False Particles are motionless in a solid because there is no attraction between them.
4. True / False The number of particles in ice stays the same as the number of particles in the water it melts into.

Activity 2

Because / But / So Complete each sentence three different ways.

Particles in a solid stay in place and barely move because

Particles in a solid stay in place and barely move but

Particles in a solid stay in place and barely move so