

Name: _____

Date: _____



Chapter III: States of Matter



Matter

To understand science, it is important to understand matter. All objects are made of matter. There are three states of matter. The three states of matter are solids, liquids, and gases. Atoms are found in all solids, liquids, and gases. However, the movement of atoms in solids, liquids, and gases is not the same. Think of a glass of water that has accidentally been knocked over. The glass is a solid. In **solids**, the atoms are not free to move, so the glass does not change shape. The water is a liquid. In **liquids**, the atoms can move more freely than in a solid. The water had the same shape as the glass, but after it was spilled, it took the shape of the tabletop. However, there is still the same amount of water. Eventually, if no one wipes up the spill, the liquid will change into a gas, water vapor. In **gases**, the atoms have the greatest freedom of movement. The atoms of gas will expand and fill the container holding them. The water vapor will expand to fill the room.

Complete the Cloze using the words in bold. Words may be used more than once.

gases **atoms** **liquids** **solids**

There are three states of matter. The three states of matter are (1) _____, liquids, and gases. Atoms are found in all solids, (2) _____, and (3) _____. However, the movement of atoms in solids, liquids, and gases is not the same. Think of a glass of water that has accidentally been knocked over. The glass is a solid. In solids, the (4) _____ are not free to move, so the glass does not change shape. The water is a liquid. In (5) _____, the atoms can move more freely than in a (6) _____. The water had the same shape as the glass, but after it was spilled, it took the shape of the tabletop. However, there is still the same amount of water. Eventually, if no one wipes up the spill, the liquid will change into a gas, water vapor. In (7) _____, the atoms have the greatest freedom of movement. The atoms of gas will expand and fill the container holding them. The water vapor will expand to fill the room.