

**Watch the "States of Matter" movie to help you complete this worksheet.**

1. What are the three main states of matter?

\_\_\_\_\_

2. Matter is anything that takes up \_\_\_\_\_. It makes up all the stuff in the \_\_\_\_\_. It is composed of \_\_\_\_\_.

3. Solids have a fixed \_\_\_\_\_ and \_\_\_\_\_. The particles in a solid are packed \_\_\_\_\_ to create a firm \_\_\_\_\_. Three examples of solids are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

4. Liquids have a definite \_\_\_\_\_, but not a definite \_\_\_\_\_. The particles in a liquid are able to \_\_\_\_\_ around more than those in a \_\_\_\_\_. They take the shape of the \_\_\_\_\_ and are able to \_\_\_\_\_ like a river. Examples of a liquids are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

5. Gases have no fixed \_\_\_\_\_ or \_\_\_\_\_. They have a tendency to \_\_\_\_\_ filling any container. Examples of a gases are \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_.

6. The fourth state of matter is \_\_\_\_\_. It can only be created at high \_\_\_\_\_ or low \_\_\_\_\_. It occurs naturally inside \_\_\_\_\_ or during lightning \_\_\_\_\_. Plasma is found in \_\_\_\_\_ lights or thermal \_\_\_\_\_ reactors.

7. Changing the \_\_\_\_\_ or \_\_\_\_\_ causes matter to change states.

**Click "How do states of matter change?" when you are finished with the movie, then match each process to its best description.**

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|----------------|---|
| Freezing •     | • Process of a liquid changing into a gas   |
| Melting •      | • Process of a gas changing into a solid or a solid changing into a gas without going through the liquid phase. |
| Evaporation •  | • Process of a liquid changing into a solid   |
| Condensation • | • Process of a solid changing into a liquid   |
| Sublimation •  | • Process of a gas changing into a liquid   |