



# Matter Changing States Worksheet

Date: June 11, 2020

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Class: Physical Science

## Fill in the Blank

Use the word bank to complete the sentences.

fusion   heating   lattice   solid   sublimation   chemical   matter   physical   pressure   boiling

1. \_\_\_\_\_ matter \_\_\_\_\_ is anything that has mass and takes up space.
2. The three basic states of matter are \_\_\_\_\_ solid \_\_\_\_\_, liquid, and gas.
3. A state change is a \_\_\_\_\_ change.
4. Matter changes state because of \_\_\_\_\_ heating \_\_\_\_\_ and temperature; \_\_\_\_\_ physical \_\_\_\_\_ properties do not change.
5. Bonded water molecules form a crystal \_\_\_\_\_ lattice \_\_\_\_\_ structure.
6. \_\_\_\_\_ heating \_\_\_\_\_ gives molecules energy that causes them to vibrate faster, breaking their bonds and melting.
7. Heat energy that helps break the molecular bonds of a solid is heat of \_\_\_\_\_ fusion \_\_\_\_\_.
8. The temperature at which a liquid turns into a gas is the \_\_\_\_\_ boiling \_\_\_\_\_ point.
9. \_\_\_\_\_ sublimation \_\_\_\_\_ is when a solid turns straight into a gas.

## Further Research

What is the process of a gas changing back into a liquid called?

Condensation