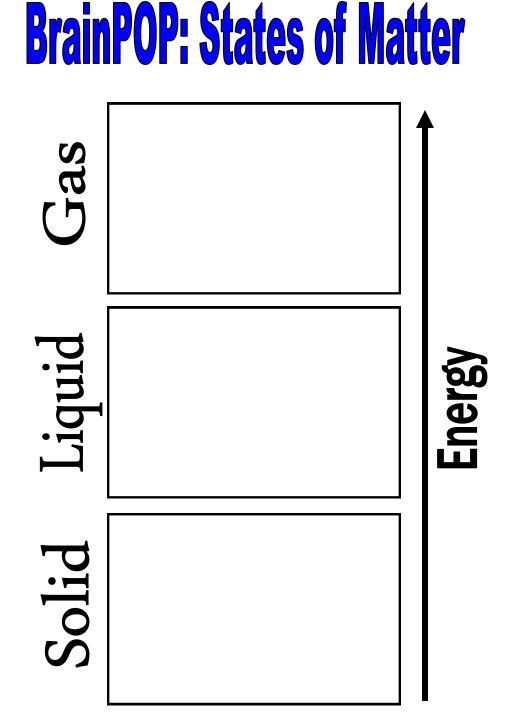
Glue this side down into your science notebook.

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5th grade science
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Draw molecules for each state of matter. Use a different color for each state.

Gases and liquids are two of the
main states of matter.
are the third. Matter is anything that takes up
. It's the material that all the stuff in
the universe is made of. All physical matter is
composed of tiny particles called .
These atoms behave differently depending on the
and pressure of their environ-
ment. (Zoom into glass of water.) Water is made
up of tiny particles called .
Each water molecule is made up of two hydrogen
atoms and one atom.
At room temperature, and in normal atmos-
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become a gas. When you increase the temperature

of the water, you are adding ______ to it.

around a lot and get farther and

farther away from one another. The changes in

state are only — the chemical

The particles get excited—they start moving

Word Bank

- space
- oxygen
- shape
- atoms
- colloids
- volume
- ice
- boil
- plasma
- physical
- energy
- faster
- shape
- molecules
- temperature
- liquid
- three
- energy
- structure
- solids
- volume
- matter

structure stays the same. The particles are still water molecules made up of oxygen and hydrogen. Unlike liquids, gasses don't have a fixed . They have a tendency to expand, which means they'll fill up any container you put them in. You are probably already familiar with solid water, we call it ! When you lower the temperature of water, you are removing . As a result, the particles do not move around much. They are still made of hydrogen and oxygen—but now they are locked into a pretty rigid structure. Solids have a definite and a definite volume. Under normal conditions, they look pretty much the same, no matter what container you put them in. The main states of matter are not just for water, all can be a solid, liquid, or gas. Another state of matter is called , its an electrically charged gas. Every star in the sky, including the sun, is made up of plasma. So is lightning. Fluorescent light bulbs in your classroom are filled with plasma.

are mixtures that contain two separate phases of matter. Butter, gelatin, and paint are all colloids.