**The (three) states of matter**

They are called \_\_\_\_\_\_\_\_\_, liquids and \_\_\_\_\_\_\_\_\_.

Most substances can exist in all three states.

You can heat or cool them to make them change states.

Water can be \_\_\_\_\_\_\_\_\_\_ (ice) and when you heat it, it becomes \_\_\_\_\_\_\_\_\_ (water). Heat it again and it becomes a \_\_\_\_\_\_\_\_\_ (steam).

The properties of the states

solids: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 They have a fixed shape

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

liquids: you can pour them

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

gases: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 They don’t have the same volume

**Changing states**

Changing the temperature can change the state of something. Write the correct words over the big arrows.

Heating

solids liquids gases

Cooling

gases liquids solids

**Heating and cooling**

When you heat a substance its volume increases before it changes state.

So when you heat a liquid, it takes up more space. This is how a liquid thermometer works. When the air (or your body) gets warmer, the liquid expands and you can read on the scale how warm it is.

When it cools down \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



 colder warmer hotter

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_