

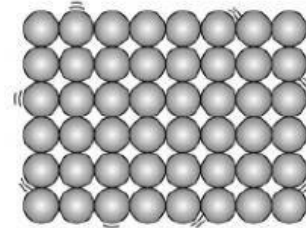
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Fill in the gaps in these sentences using words from the box. You can use each word once, more than once or not at all.

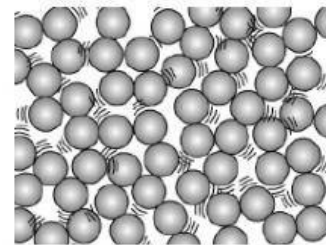
close together	container	compress	contract	expand	far apart
gas	liquids	shape	solid	strong	volume
					weak

The three states of matter are solids, \_\_\_\_\_ and gases.

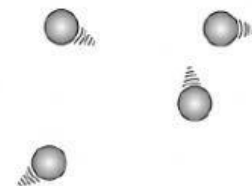
Solids have a fixed shape and \_\_\_\_\_, so they cannot be poured and are difficult to \_\_\_\_\_. This is because the particles in solids are \_\_\_\_\_ and are held in a fixed arrangement with \_\_\_\_\_ forces.



Liquids have a fixed \_\_\_\_\_, but they do not have a fixed \_\_\_\_\_. They take the shape of their \_\_\_\_\_ and they can be poured. The particles are held \_\_\_\_\_ by fairly strong bonds, but can move past each other in the liquid.



Gases do not have a fixed shape or volume. They \_\_\_\_\_ to fill any container they are in. The particles in a gas are \_\_\_\_\_ and there are only \_\_\_\_\_ forces between them.



- 2 A thermometer has a red liquid inside it.

a What happens to the particles in the liquid when the thermometer gets hotter?

\_\_\_\_\_

b How does this affect the volume of the liquid?

\_\_\_\_\_

c What happens to the particles in the liquid when the thermometer gets colder?

\_\_\_\_\_

d How does this affect the volume of the liquid?

\_\_\_\_\_

**I can...**

- describe the properties of different states of matter
- explain the properties in terms of the particle model
- explain why materials expand and contract when the temperature changes.