

Solids, liquids and gases

Name: _____

Revision of the properties of solids, liquids and gases:

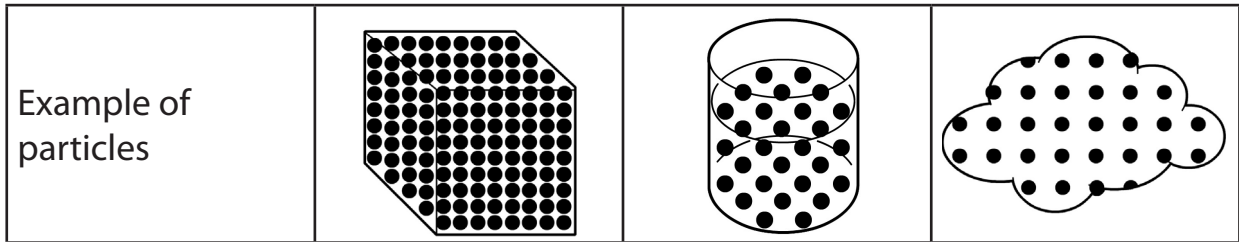
Property	Solids	Liquids	Gases
Visibility (to see)	Easy to see.	Most liquids are easy to see.	Not easy to see.
Shape	Have definite shape.	Have no definite shape.	Have no definite shape.
Space	Takes up definite space.	Takes up definite space.	Takes up all space available.
Flow (movement)	Do not flow.	Can flow.	Can flow.
Examples	Rocks, chairs, houses.	Water, milk, orange juice.	Helium gas in balloons, air outside.

All matter is made from small particles (atoms and molecules). These particles are too small to see with a microscope and very hard to think about. Therefore we classify these particles in three categories, tightness of particles, can the particles be compressed, and the position of the particles. The classification of solids, liquids and gases according to their particles are:

Particle classification	Solids	Liquids	Gases
Tightness	Particles are packed tightly together.	Particles are very close together, but there are small open spaces (vacuums) in between.	Particles are far apart, there are many big vacuums in between the particles.
Compress	Cannot be compressed.	Cannot be compressed.	Can be compressed because of empty spaces.
Position	Particles have fixed positions, they cannot move from their positions.	Particles do not have fixed positions, they are always moving around.	Particles move freely, the particles spread out in the space provided to them.

Solids, liquids and gases (continued)

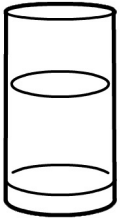

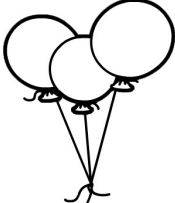
Name: _____



Draw the particles inside:


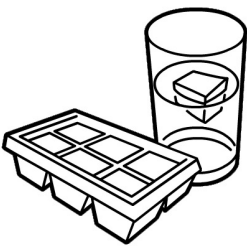
Solid	Liquid	Gas

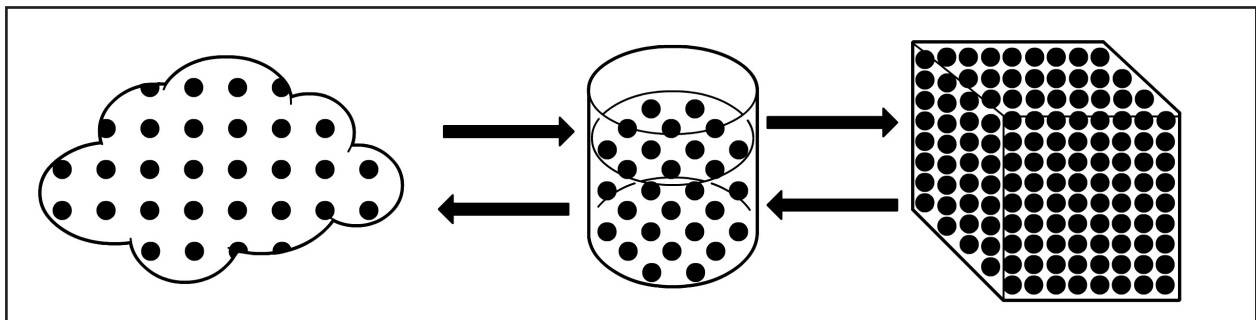
The table below contains a list of containers. Indicate what material is inside the container and also what type of material can be found on the inside:

Container	What material is inside?	Is the material a solid, liquid or gas?
		
		
		

Solids, liquids and gases (continued)

Name: _____

Container	What material is inside?	Is the material a solid, liquid or gas?
		
		



What do we call the solid state of water?

What do we call the gas state of water?

What do we call the liquid state of water?

What do we call the state of ice changing into water?

What do we call the state of water changing into steam?

What do we call the state of steam changing into water?

What do we call the state of water changing into ice?