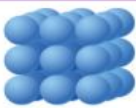




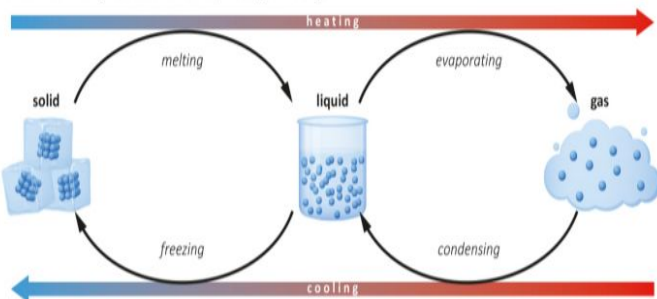
Particle arrangement	Properties
<b>Solid</b> 	Particles are tightly packed together, which means solids hold their shape and can't be squashed.
<b>Liquid</b> 	Particles are slightly further apart so liquids can flow from one container to another. Liquids cannot change their volume.
<b>Gas</b> 	Particles are far apart so gases can spread out to fill all the space available. A gas can be squashed to change its volume.

In *Macbeth*, three witches make a potion to help Macbeth see into the future. It contains all sorts of strange things:

*Fillet of a fenny snake,  
 In the cauldron boil and bake,  
 Eye of newt and toe of frog,  
 Wool of bat and tongue of dog,  
 Adder's fork and blind-worm's sting,  
 Lizard's leg and owlet's wing*

### Changes of state

Matter can be changed between states by heating or cooling.



Focus Artist: James Rosenquist  
 Key Art Skill: Collage

Key vocab: overlap, layer, popular culture, popart, advertising, billboard



### Glossary

- acupuncture** A treatment for pain where thin needles are positioned just under the skin at special points around the body.
- anaesthetic** A substance that makes someone go to sleep or stops them feeling pain during an operation.
- condensation** The process of a gas cooling to become a liquid.
- evaporation** The process of a liquid becoming a gas by heating.
- freezing** The process of a liquid becoming a solid by cooling.
- laudanum** A solution containing morphine that is used as a painkiller.
- mafeisan** A powder used in Ancient China which made patients sleep and stop them from feeling pain.
- mandrake** A plant with purple flowers. The root was used as an anaesthetic in ancient times.
- matter** A physical substance that takes up space.
- melting** The process of a solid becoming a liquid when it is heated.
- morphine** A drug made from opium that is used to stop people from feeling pain.
- particle** An extremely small piece of matter.
- potion** A liquid that is not a medicine and is believed to have a magical effect on someone who drinks it.
- sedate** To make a person feel very calm or go to sleep.
- vapour** A gas or very small drops of liquid that result from heating a liquid.