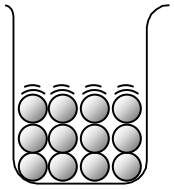
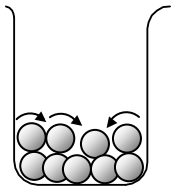
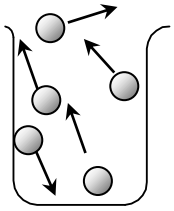
8323 Investigating Chemistry

Kinetic Theory of Matter

1. List the following descriptions against the respective state of matter:

- Particles are tightly packed
- Particles are able to slide over each other
- Attractive forces between the particles are very weak
- Particles are able to move freely in all directions
- Attractive forces between the particles are very strong forces.
- Particles are vibrating in fixed positions
- Attractive forces between the particles are still strong
- Particles have high energy
- Particles have lower energy
- Particles have lowest energy

 **SOLID**	
 **LIQUID**	
 **GAS**	

2. Using the kinetic theory of matter, explain in the space below, why solids and liquids have fixed volumes while gases do not.