

# Key Stage 3 Precise Learning Points



**Unit Number**

C2

**Unit Title**

Particles & The Periodic Table

**Chapter**

What happens when particles collide

## Key Scientific Points

1. All particles move, and move faster as they are heated.
2. The closer particles are together the more likely they are to collide and transfer energy.
3. When particles collide, energy is passed from the high-energy particle to the low energy one.
4. All particles have mass.
5. For a fixed mass of the same substance gases contain more energy than liquids which contain more energy than solids
6. When a particle hits a surface it imparts a force on it.
7. The more particles in a given volume the greater the number of collisions with a given surface and therefore the greater the force imparted on the given surface.
8. Pressure = force  $\div$  area