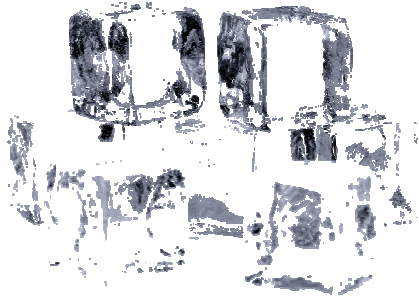


## Ice cubes



Everyone has sat and watched ice cubes melting, but what is happening to the water particles when as the cube melts. Here's your chance to explain.

**Task:** Using the idea of particles, you should draw a poster that explains what is happening as the ice cubes melt.

- The poster should be on A3 or A4 paper.
- Use the key words shown below.
- Remember to explain about the particles arrangement and movement.

**Key words:** boiling, compressible, conservation of mass, density, energy, evaporating, fixed, forces between particles, freezing, gas, liquid, melting, moving randomly, particles, solid, solidification, states of matter, temperature, vibrating

Level	You might have:
<b>4</b>	<ul style="list-style-type: none"> <li>• Used most key words correctly.</li> <li>• Described what solids, liquids and gases are like.</li> <li>• Used the correct words for each state.</li> <li>• Named and described the changes between each state.</li> </ul>
<b>5</b>	<ul style="list-style-type: none"> <li>• Used most of the key words accurately.</li> <li>• Drawn a simple particle diagram for each state.</li> <li>• Explained or shown that substances are made up of particles.</li> <li>• Described some differences between particle behaviour of each state.</li> </ul>
<b>6</b>	<ul style="list-style-type: none"> <li>• Used all the key words accurately.</li> <li>• Drawn particle arrangements clearly using diagrams.</li> <li>• Explained, in detail, the particle behaviour in each state.</li> <li>• Shown or described how mass is conserved during changes of state.</li> <li>• Explained evaporation using particle theory.</li> </ul>
<b>7</b>	<ul style="list-style-type: none"> <li>• Used a detailed scientific knowledge of particle theory.</li> <li>• Used energy and forces to explain the differences in behaviour of the particles in each state.</li> <li>• Explained the changes of state using particle theory.</li> <li>• Concept of energy and or forces should be incorporated into explanations.</li> </ul>