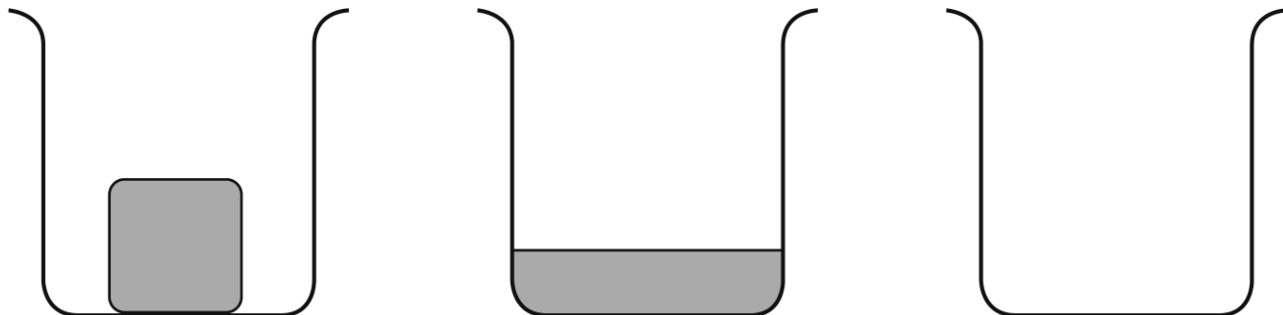


Task Sheet

How does an ice cube melt?

Some students were watching an ice cube in a beaker as it slowly melted. They were wondering why it melts.



Task: Draw a poster that explains why an ice cube melts when left out of the freezer. Use the Big Idea of Particles to explain why the ice cube melts.

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 ladder:

What is your target level? Use the level ladder to help you reach it:

To get level	You might have:
Easy	<ul style="list-style-type: none">• Used most of the key words accurately.• Drawn a simple particle diagram for each state.• Explained or shown that substances are made up of particles.• Described some differences between particle behaviour of each state.
Medium	<ul style="list-style-type: none">• Used all the key words accurately.• Drawn particle arrangements clearly using diagrams.• Explained, in detail, the particle behaviour in each state.• Shown or described how mass is conserved during changes of state.• Explained evaporation using particle theory.
Hard	<ul style="list-style-type: none">• Used a detailed scientific knowledge of particle theory.• Used energy and forces to explain the differences in behaviour of the particles in each state.• Explained the changes of state using particle theory.• Concept of energy and or forces should be incorporated into explanations.