

Science - Year 1

Everyday Materials – Block 1EM

Marvellous Materials

Session 3

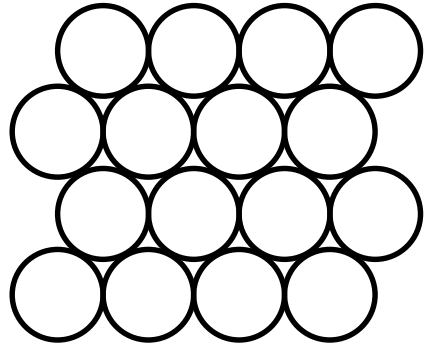
Resource Pack

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We refer you to our warning, at the foot of the block overview, about links to other websites.

Particles Role-Play

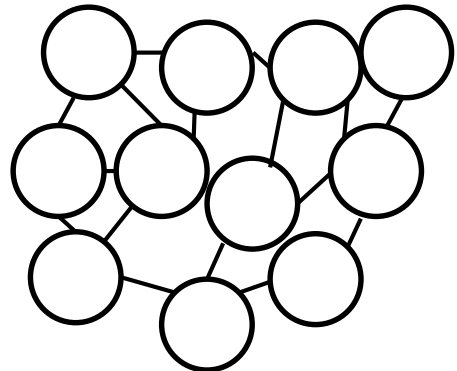
Ask the children to make an ice cube by standing closely together, linking arms and in rows.

Say: *Each one of you is a particle; that is, a tiny part of an ice cube. Everything is made up of particles, including ice. All solid things are made of particles that are linked tightly together.*



Ask the children to move apart a bit, at arms length and holding hands.

Say: *When an ice cube starts to melt, it turns from a solid object to a liquid one. The particles gain energy and can move around more. The particles are still linked but aren't packed together tightly any more.*



Ask the children to move around together, holding hands but moving more fluidly than before.

You may also want to explain that, as water heats up, it can turn into water vapour, which is a gas. The particles in a gas have enough energy to move away from each other. Ask the children to move around, keeping a distance from each other and not linked at all.

