

HEATING & COOLING

Key Stage 2 Science

- Predict the temperature of different materials that are all in thermal equilibrium with the room.
- Predict the temperature reached by mixing samples of water that are all at the same temperature.
- Make qualitative predictions about the resulting temperature when hot and cold water are mixed.

From year 7 topic PARTICLES

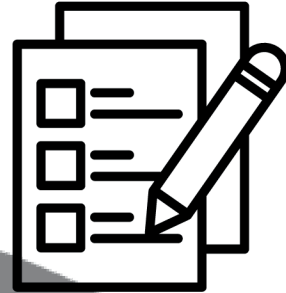
- Particle model of solids, liquids and gases

PRIOR LEARNING



Consolidate prior learning

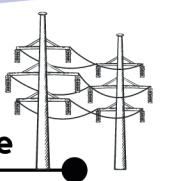
PRE ASSESSMENT



PEER ASSESSMENT

How well can I describe the motion and arrangement of particles in a solid, liquid or gaseous state?

Changing volume with temperature



Comparing thermal energy stores with different temperatures and masses



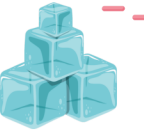
The difference between thermal energy and temperature



Changing between states of matter



Heating and cooling curves



END OF TOPIC ASSESSMENT



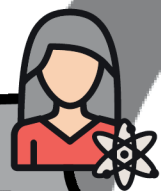
LATER LEARNING

Key Stage 4 Physics

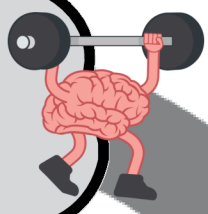
- Conservation of energy
- Energy stores and systems
- Particle model of matter

TEACHER ASSESSMENT

How well can I explain how something which is designed to reduce heat loss works?



KNOWLEDGE ASSESSMENT 2



KNOWLEDGE ASSESSMENT 1

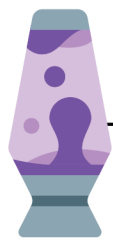


SELF ASSESSMENT

How well can I explain how a material changes using a temperature-time graph?



Convection and convection currents



Thermal conductors and insulators



Working scientifically

- WS 2.6 Make and record observations and measurements using a range of apparatus and methods.

