

Evaporation – Curriculum Links

By Doaa George

Year 7-8

The properties of the different states of matter can be explained in terms of the motion and arrangement of particles.

Elaborations:

- Explaining why a model for the structure of matter is needed
- Modelling the arrangement of particles in solids, liquids and gases.
- Using the particle model to explain observed phenomena linking the energy of particles to temperature changes.

Students describe the observed properties and behaviour of matter, using scientific models and theories about the motion and arrangement of particles.

Students describe how scientific understanding of, and discoveries about, the properties of elements, compounds and mixtures relate to their uses in everyday life.

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Elaborations:

- Modelling the arrangement of particles in solids, liquids and gases
- Using the particle model to distinguish between the properties of liquid water, ice and steam

Stage	Demonstrated inquiry	Prescribed inquiry	Structured inquiry	Guided inquiry	Open inquiry
Formulate, question and predict	No question	Provided question	Sharpened question	Learner selects	Learner poses questions
Plan	No planning	Provided procedure	Discussion with teacher	Guided during planning	Learner determines plans
Conduct	Teacher conducts	Conducting and recording method told	Sharpened plan and conduct	Guided during conducting and recording	Learner conducts and records
Process and analyse	Teacher analyses	Analysis method told	Discussed analysis	Guided analysis	Learner analyses data studying trends
Reason, solve and link back	No problem solving	Teacher provides reasoning and links	Discussed reasoning and conclusion	Guided reasoning and formulating conclusion	Learner reasons to formulate conclusions
Communicate and justify	No conclusion	Teacher writes conclusion	Student writes	Guided justification and findings	Learner justifies findings and conclusions