Prior Learning: Everything is made up of matter, forces can affect matter

P.O.S - States of matter

Concept – Physics forces, chemistry – chemical reactions

Facts Vocabulary Matter - Middle English: via Old French 1. Matter from Latin materia 'timber, substance', a) is made of tiny little particles. b) materials exist as - solid, liquid, gas also 'subject of discourse', from mater 'mother'. 2. Solids: a) firm and stable in shape b) not fluid particles very close together / vibrate around a fixed position 3. Liquid: a) substance that flows freely Solid Liquid b) not of constant volume Holds Shape Shape of Container c) having a consistency like that of water or oil. Fixed Volume Fixed Volume d) particles close but randomly arranged / move around Gases: Particles: a) substance will expand freely to fill the whole of a container liquid b) having no fixed shape c) no fixed volume d) particles far apart and randomly arranged / move around onot rigid fixed shape no fixed shape Changes of state: fixed volume fixed volume a) Melting is the process of changing a solid into a liquid b) Evaporation is the process of changing a liquid into a gas c) Condensation is the process of changing a gas into a d) Freezing is the process of changing a liquid into a solid Water cycle: a) Evaporation - In the water cycle, liquid water (in the ocean, lakes, or rivers) evaporates and becomes water vapour b) Condensation - In the water cycle, water vapour in the atmosphere condenses and becomes liquid.

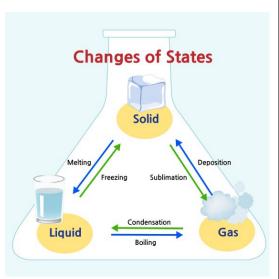
Websites:

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Water:

a) boils at 100°C. b) freezes at 0°C.

https://www.bbc.com/bitesize/topics/zkgg87h https://www.bbc.com/bitesize/clips/z8qtfg8 https://www.youtube.com/watch?v=TWb4KlM2vts



Shape of Containe

Volume of Container

no fixed shape

no fixed volume