

Subject	Year	Term
Science	7	1
Topic		
7C1 Physical Changes & the particle model		
Content (Intent)		
<b>Prior Learning (Topic)</b> KS1 curriculum - everyday materials, KS2 – uses of everyday materials, states of matter, properties and changes of materials,		
The particle model Changes of state – melting/boiling Sublimation Evaporation Density	Sublimation Physical changes and mass conservation Ice and water – changes to melting and boiling point Atoms, elements and compounds Formulae and symbols	
<b>Future Learning (Topic)</b> 7C2 Atoms, Elements & Mixtures, 8C1 Properties of elements(lesson 1 changes of state), C8 chemical analysis (Lessons 1 &2 – mixtures and formulations/pure substances), C1 atomic structure and the periodic table, C2 Bonding, Structure and Properties of matter		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
Demos Burning sodium in chlorine Methane bubble  Practical work Investigating properties of solids/liquids/gases Investigating the density of different materials Investigating the colling curve of chocolate Sublimation of Ammonium chloride Investigating rate of evaporation Observing physical changes Required practical – melting ice Investigating how salt affects melting points of ice Making copper sulphate Making hydrogen and testing it  Written Atomic model of the atom Planning a method for experiments	- 2 x standard homeworks (Level given. Written feedback. Response expected.) -1 x end of topic test (Level given. Verbal feedback to class and individuals.) -Particle model diagrams: in exercise book. Marked and feedback given. -Planning of investigations: in exercise book. Marked and feedback given.	
How can parents help at home?		

Look at the topic specific resources on the VLE

Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons.

Take an interest! Ask your children what they have learnt and be curious about their learning.

### Helpful further reading/discussion

#### Reading

#### Vocabulary Lists

#### Careers Links

Particle  
Pressure  
Melting  
Freezing  
Boiling  
Condensation  
Sublimation  
Evaporation  
Density  
Conservation

Materials scientist  
Engineering  
Architect