Chemistry - Year 10 Topic 2 Bonding, structure and properties - part 1
Student checklist - Triples

	KS4 Science: Bonding, Structure and Properties	I can do this	Covered in Class	Strength ?	Revised it?	**Kerboodle Textbook page reference**
Review of previous test - work on targets	0					
States of matter	Use models to represent particles in a solid, liquid and gas. Describe why substances change state in terms of particles and forces. Use these ideas to explain the shape of a cooling curve.					36-37
Practical investigation to investigate different properties	Describe what a compound is and how they form from elements. Show how atoms can form positive and negative ions. Use diagrams to model how this happens.					38-39
Ionic bonding - including dot and cross	Use the Periodic Table to predict which ions elements will form. Draw dot and cross diagrams to illustrate how atoms form ions, and ionic compounds form. Use information about ions to predict the empirical formula of ionic compounds.					40-41
Structure and properties of ionic compounds	Describe the structure of ionic compounds. Describe, in terms of ions, why ionic compounds can conduct electricity Explain why ionic compounds cannot conduct electricity when solid (but they can when melted/ in solution)					42-43
Review lesson - mid topic assessment (trilogy only)	•					

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Flame tests, hydroxides and flame emission spectroscopy (triple only)	Describe how to use flame tests and precipitates to identify positive ions Compare these chemical tests with instrumental methods Interpret data from chemical and instrumental tests					186-187
Tests for negative ions (triple only)	Describe the tests used to identify carbonates, halides and sulfates Explain how you would use these tests, plus tests for positive ions, to identify substances.					190-191
Qualitative ion testing ((triple only)	Consolidate learning so far on ions, ionic bonding, and ion tests					
Required practical - ions testing (triple only)	Plan an experiment to deduce the identity of an unknown compound Record observations accurately using the correct scientific language Interpret observations to identify an unknown compound					