CC5 Ionic Bonding

Topic Progression Checklist

I know this → colour green	I'm not sure → colour yellow	I don't know this → colour red

Subtopics and Learning Objectives	Start	End
CC5a Ionic Bonds		
Recall the formulae of simple ions.		
Explain how cations and anions are formed.		
Use dot and cross diagrams to explain how ionic bonds are formed.		
Explain the difference between an atom and an ion.		
Calculate the numbers of protons, neutrons and electrons in simple ions.		
Explain the formation of ions in groups 1, 2, 6 and 7 of the periodic table.		
CC5b Ionic lattices		
Recall the formulae of common polyatomic ions, and the charges on them.		
Interpret the use of –ide and –ate endings in the names of compounds.		
Name ionic compounds using –ide and –ate endings.		
Work out the formula of an ionic compound from the formulae of its ions.		
Describe the structure of ionic compounds.		
Explain how ionic compounds are held together.		
CC5c Properties of Ionic Compounds		
Describe the properties of ionic compounds.		
Explain why ionic compounds have high melting points and high boiling points.		
Explain why ionic compounds conduct electricity when they are molten and in aqueous solution.		
Explain why ionic compounds do not conduct electricity as solids.		
Identify ionic compounds from data about their properties.		