

Differentiating for Learning in STEM Teaching

Using pyramids of learning in the classroom

	·Identify- Draw an atom and compare the mass and charge of the sub-particles.
	• Laentity- Draw an atom and compare the mass and charge of the sub-particles
7	2 de la la compana de la compa

- •Identify- Match the type of bonding with their definitions and properties.
- •Explain how the the structure of an atom links to the periodic table. To help you do this, draw the
- structure of lithium, sodium and potassium and see if you can spot a pattern.
 - · Analyse-Sort the cards to form the formula of the following ionic compounds:

•Describe-Draw the electronic configuration for lithium, potassium and carbon.

- ·Magnesium oxide, lithium chloride, sodium oxide, water, aluminium chloride and calcium fluoride.
 - ·Synthesise-Draw the following bonds:

6

- ·Sodium fluoride, hydrogen flouride, chlorine and sodium oxide.
- Apply your knowledge to complete the exam questions on bonding
- Link-You have the electronic structure of water. What would carbon dioxide look like? Draw this in your book.
 - •Synthesise-Use the cards to make the formula of the compounds on the sheet. Use this to write the balanced symbol equations for the neutralisation reactions listed.
 - •Link and Synthesise- Silicon dioixde is a giant covalent structure. Use your knowledge of covalent bonding to explain it's properties and why it has these properties.