Subject	Year	Term
Science	10	2

Topic

C2 Bonding, structure and the properties of matter

Content (Intent)

Prior Learning (Topic) 7C1, 7C2 lessons 1-8, 8C1, 8C2 lesson 13, C7 lessons 2, 3 and 6, C5 lesson 1 and 4, C1.

1. *States of matter*
2. *Ions*
3. *Ionic bonding*
4. *Ionic compounds*
5. *Metallic bonding*
6. *Alloys*
7. *Covalent bonding*
8. *Small molecules*
9. *Polymers*
10. *Giant covalent structures*
11. *Graphene and fullerenes*

Future Learning (Topic) C3 C4

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Practical work Testing electrical conductivities Making a polymer Written Drawing 'dot and cross' diagrams Drawing diagrams of giant structures Explanations of the properties.	- 2 x standard homeworks (Level given. Written feedback. Response expected.) -1 x end of topic test (Level given. Verbal feedback to class and individuals.) -graph: 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**
A Short History of Nearly Everything by Bill Bryson, Doubleday Stuff Matters: The Strange Stories of the Marvellous Materials that Shape Our Man-made World by Mark Miodownik, Viking	*Ionic* *Covalent* *Metallic* *Giant structure* *Strong bonds* *Delocalised electrons* *Weak intermolecular forces* *Layers* *Energy* *Free to move*	Medicine Pharmacy Veterinary science Material science