

Subject	Year	Term		
Chemistry	12	1		
Topic				

2.1.2 Compounds, formulae and equations.

Content (Intent)

Prior Learning (Topic) 11C1 Structure and bonding,

Formulae and equations

- (a) the writing of formulae of ionic compounds from ionic charges, including:
- (i) prediction of ionic charge from the position of an element in the periodic table
- (ii) recall of the names and formulae for the following ions: NO₃⁻, CO₃²⁻, SO₄²⁻, OH⁻, NH₄ +, Zn²⁺ and Ag⁺
- **(b)** construction of balanced chemical equations (including ionic equations), including state symbols, for reactions studied and for unfamiliar reactions given appropriate information.

Future Learning (Topic) 2.1.4 Acids, 3.1.2 Group 2, 3.1.3 Group 7, 5.3.1 Transition elements, 5.2.3 Redox

How will knowledge and skills be taught?	How will your understanding be assessed &
(Implementation)	recorded (Impact)
Practical work	exam questions in lessons and homework
Reactions of acids with metals, carbonates,	
bases, alkalis	
Written Writing balanced equations for reactions of acids Practise of writing formulae for compounds	

How can parents help at home?

Look at the topic specific resources on the VLE

Use appropriate websites: MachemGuy, Allery Chemistry, Chemistry World – by Royal Society of Chemistry, ChemGuide.

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
The Science of Everyday Life	Ionic	Analytical chemist
by Marty Jopson	Charges	Chemical engineer
Why Chemical Reactions	Anions	Clinical biochemist
Happen by Keeler and	Cations	Forensic scientist
		Pharmacologist
Wothers	Formulae	Process chemist
	Ionic equations	Quality control analyst
Chapter 2 of A level	State symbols	Research scientist
chemistry for OCR		Science writer
,		Site chemist
		Teacher or lecturer
		Degrees;

Chemistry	
Biochemistry	
Biomedical sci	ence
Biological scie	nces
Medicine	
Research chen	nist
Veterinary me	dicine