Autumn 1	Year 10 Chemistry	Year 10 Combined Higher	Year 10 Combined Foundation	Year 11 Chemistry	Year 11 Combined Higher	Year 11 Combined Foundation
Week 1	Lesson 1: 4.1.1.1 – Atoms,	Lesson 1: 5.1.1.1– Atoms, elements	Lesson 1: 5.1.1.1– Atoms, elements	Lesson 1: 4.7.1.1 Crude oil,	Lesson 1: 5.7.1.1 Crude oil,	Lesson 1: 5.7.1.1 Crude oil,
(w/b Wed 7 th Sep)	elements and compounds	and compounds	and compounds	hydrocarbons and alkanes	hydrocarbons and alkanes	hydrocarbons and alkanes
	Lesson 2: 4.1.1.1 – Atoms,	Lesson 2: 5.1.1.1– Atoms, elements	Lesson 2: 5.1.1.1– Atoms, elements	Lesson 2: 4.7.1.2 Fractional	Lesson 2: 5.7.1.2 Fractional	Lesson 2: 5.7.1.2 Fractional
	elements and compounds	and compounds	and compounds	distillation and petrochemicals	distillation and petrochemicals	distillation and petrochemicals
	Lesson 3: 4.1.1.2 - Mixtures					
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain
Level 2	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Alkane, alkene, fractional	Alkane, alkene, fractional	Alkane, alkene, fractional
Level 3	isotope, plum pudding model,	isotope, plum pudding model,	isotope, plum pudding model,	distillation, cracking, Bromine	distillation, cracking, Bromine	distillation, cracking, Bromine
	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	water, viscosity, volatility, alcohol,	water, viscosity, volatility	water, viscosity, volatility
	number, proton/atomic number,	number, proton/atomic number,	number, proton/atomic number,	carboxylic acid, ester/esterification		
	group, period, property, reactivity,	group, period, property, reactivity,	group, period, property, reactivity,			
	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,			
Common	anion, displacement	anion, displacement	anion, displacement	Confusion into and interpretation	Conficing into and intromologylar	Confusion into a and introposition
Common	Confusion between proton and	Confusion between proton and	Confusion between proton and	Confusing inter- and intramolecular	Confusing inter- and intramolecular	Confusing inter- and intramolecular
Misconceptions	mass number, getting electronic structure the wrong way round	mass number, getting electronic	mass number, getting electronic structure the wrong way round	bonds	bonds	bonds
	(not doing 2 then 8 electrons).	structure the wrong way round (not doing 2 then 8 electrons).	(not doing 2 then 8 electrons).			
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Homework	group	group.	group.	group.	group.	group.
Assessment this	Unit 1 Test	Unit 1 Test	Unit 1 Test	Unit 7 Test	Unit 8 Test	Unit 8 Test
half-term	ome i rest	One I rest	One I rest	one / rest	ome o rese	one o rest
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-
	profiles/research-scientist-	profiles/research-scientist-	profiles/research-scientist-	profiles/chemical-engineer	profiles/chemical-engineer	profiles/chemical-engineer
	physical-sciences	physical-sciences	physical-sciences			
Employability Skills	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication
	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
	, ,	, 5.	, 5.	, ,	, ,	, 5.
Week 2	Lesson 1: 4.1.1.2- Mixtures	Lesson 1: 5.1.1.2- Mixtures	Lesson 1: 5.1.1.2 - Mixtures	Lesson 1: 4.7.1.3 Properties of	Lesson 1: 5.7.1.2 Fractional	Lesson 1: 5.7.1.2 Fractional
(w/b 12 th Sep)	Lesson 2: 4.1.1.3 – The	Lesson 2: 5.1.1.2- Mixtures	Lesson 2: 5.1.1.3 – The	hydrocarbons	distillation and petrochemicals	distillation and petrochemicals
	development of the model of the		development of the model of the	Lesson 2: 4.7.1.4 Cracking and	Lesson 2: 5.7.1.3 Properties of	Lesson 2: 5.7.1.3 Properties of
	atom		atom	alkenes	hydrocarbons	hydrocarbons
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain
<mark>Level 2</mark>	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Alkane, alkene, fractional	Alkane, alkene, fractional	Alkane, alkene, fractional
Level 3	isotope, plum pudding model,	isotope, plum pudding model,	isotope, plum pudding model,	distillation, cracking, Bromine	distillation, cracking, Bromine	distillation, cracking, Bromine
	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	water, viscosity, volatility, alcohol,	water, viscosity, volatility	water, viscosity, volatility
	number, proton/atomic number,	number, proton/atomic number,	number, proton/atomic number,	carboxylic acid, ester/esterification		
	group, period, property, reactivity,	group, period, property, reactivity,	group, period, property, reactivity,			
	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,			
	anion, displacement	anion, displacement	anion, displacement	Confusions in the condition and in the condition	Confusion into and interpolation	Confusion internandiaturantendar
Commerc	Confusion between mustans and		Confusion between proton and	Confusing inter- and intramolecular	Confusing inter- and intramolecular	Confusing inter- and intramolecular
Common	Confusion between proton and	Confusion between proton and	-	l hands	l hands	
Common Misconceptions	mass number, getting electronic	mass number, getting electronic	mass number, getting electronic	bonds	bonds	bonds
	mass number, getting electronic structure the wrong way round	mass number, getting electronic structure the wrong way round	mass number, getting electronic structure the wrong way round	bonds	bonds	bonas
Misconceptions	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).			
	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Misconceptions	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).			

Career opportunities Employment Links Employability Skills	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/chemical-engineer Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
Week 3 (w/b 19 th Sep)	Lesson 1: 4.1.1.4/4.1.1.5 – Relative sizes and charges of subatomic particles/size and mass of atoms Lesson 2: 4.1.1.6 – Relative Atomic Mass Lesson 3: 4.1.1.7 – Electronic Structure	Lesson 1: 5.1.1.3 – The development of the model of the atom Lesson 2: 5.1.1.4/5.1.1.5 – Relative sizes and charges of subatomic particles/size and mass of atoms	Lesson 1: 5.1.1.4/5.1.1.5— Relative sizes and charges of subatomic particles/size and mass of atoms Lesson 2: 5.1.1.6 — Relative Atomic Mass	Lesson 1: 4.7.2.1 Structure and formulae of alkenes Lesson 2: 4.7.2.2 Reactions of Alkenes - Combustion	Lesson 1: 5.7.1.4 Cracking and alkenes Lesson 2: 5.8.1.1/5.8.1.2 Pure substances/ Formulations	Lesson 1: 5.7.1.4 Cracking and alkenes Lesson 2: 5.8.1.1/5.8.1.2 Pure substances/ Formulations
Key Words Level 2 Level 3	Identify, describe, explain Nucleus, proton, neutron, electron, isotope, plum pudding model, nuclear model, Bohr model, mass number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	Identify, describe, explain Nucleus, proton, neutron, electron, isotope, plum pudding model, nuclear model, Bohr model, mass number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	Identify, describe, explain Nucleus, proton, neutron, electron, isotope, plum pudding model, nuclear model, Bohr model, mass number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	Identify, describe, explain Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility, alcohol, carboxylic acid, ester/esterification	Identify, describe, explain Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility	Identify, describe, explain Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility
Common Misconceptions	Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	Confusing inter- and intramolecular bonds	Confusing inter- and intramolecular bonds	Confusing inter- and intramolecular bonds
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 1 Test	Unit 1 Test	Unit 1 Test	Unit 7 Test	Unit 8 Test	Unit 8 Test
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/research-scientist-physical-sciences	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork
IT Skills				IT1		
Week 4 (w/b 26 th Sep)	Lesson 1: 4.1.2.1/4.1.2.2 – The Periodic Table/Development of the Periodic Table Lesson 2: 4.1.2.3/4.1.2.5 – Metals and non-metals/Group 1 Lesson 3: 4.1.2.4/4.1.2.6 -Group 0/Group 7	Lesson 1: 5.1.1.6 – Relative Atomic Mass Lesson 2: 5.1.1.7– Electronic Structure	Lesson 1: 5.1.1.7– Electronic Structure Lesson 2: 5.1.2.1/5.1.2.2 – The Periodic Table/Development of the Periodic Table	Lesson 1: 4.7.2.2 Reactions of Alkenes - Hydrogen Lesson 2: 4.7.2.2 Reactions of Alkenes - Halogen/Steam	Lesson 1: 5.8.1.3 Chromatography (RP) Lesson 2: 5.8.2.1 Test for hydrogen	Lesson 1: 5.8.1.3 Chromatography (RP) Lesson 2: 5.8.2.1 Test for hydrogen

Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain
Level 2	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Alkane, alkene, fractional	Litmus paper, bleach, electrolysis	Litmus paper, bleach, electrolysis
Level 3	isotope, plum pudding model,	isotope, plum pudding model,	isotope, plum pudding model,	distillation, cracking, Bromine		
	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass	water, viscosity, volatility, alcohol,		
	number, proton/atomic number,	number, proton/atomic number,	number, proton/atomic number,	carboxylic acid, ester/esterification		
	group, period, property, reactivity,	group, period, property, reactivity,	group, period, property, reactivity,			
	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,	shell, metal, non-metal, ion, cation,			
Common	anion, displacement	anion, displacement	anion, displacement	Confusing inter- and intropolarylar		
Common	Confusion between proton and	Confusion between proton and	Confusion between proton and	Confusing inter- and intramolecular		
Misconceptions	mass number, getting electronic structure the wrong way round	mass number, getting electronic structure the wrong way round	mass number, getting electronic structure the wrong way round	bonds		
	(not doing 2 then 8 electrons).	(not doing 2 then 8 electrons).	(not doing 2 then 8 electrons).			
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Tiomework	group	group.	group.	group.	group.	group.
Assessment this	Unit 1 Test	Unit 1 Test	Unit 1 Test	Unit 7 Test	Unit 8 Test	Unit 8 Test
half-term						
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-
	profiles/research-scientist-	profiles/research-scientist-	profiles/research-scientist-	profiles/chemical-engineer	profiles/analytical-	profiles/analytical-
	<u>physical-sciences</u>	<u>physical-sciences</u>	<u>physical-sciences</u>		chemist/4010854.article	chemist/4010854.article
Employability Skills	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
Employability Skills	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
Week 5		Lesson 1: 5.1.2.1/5.1.2.2 – The	Lesson 1: 5.1.2.3/5.1.2.5 – Metals	Lesson 1: 4.7.2.3 Alcohols	Lesson 1: 5.8.2.2 Test for oxygen	Lesson 1: 5.8.2.2 Test for oxygen
(w/b 3 rd Oct)		Periodic Table/Development of the	and non-metals/Group 1	Lesson 2: 4.7.2.4 Carboxylic acids -	Lesson 2: 5.8.2.3 Test for carbon	Lesson 2: 5.8.2.3 Test for carbon
		Periodic Table	Lesson 2: 5.1.2.4/5.1.2.6 – Group	Structure, Properties, etc	dioxide	dioxide
		Lesson 2: 5.1.2.3/5.1.2.5 – Metals	0/Group 7			
		and non-metals/Group 1				
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain
Level 2	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Nucleus, proton, neutron, electron,	Alkane, alkene, fractional	Litmus paper, bleach, electrolysis	Litmus paper, bleach, electrolysis
Level 3	isotope, plum pudding model,	isotope, plum pudding model,	isotope, plum pudding model,	distillation, cracking, Bromine		
	nuclear model, Bohr model, mass	nuclear model, Bohr model, mass				
		the state of the s	nuclear model, Bohr model, mass	water, viscosity, volatility, alcohol,		
1	number, proton/atomic number,	number, proton/atomic number,	number, proton/atomic number,	water, viscosity, volatility, alcohol, carboxylic acid, ester/esterification		
	number, proton/atomic number, group, period, property, reactivity,	number, proton/atomic number, group, period, property, reactivity,	number, proton/atomic number, group, period, property, reactivity,	and the second s		
	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation,	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation,	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation,	and the second s		
Common	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	carboxylic acid, ester/esterification		
Common Misconceptions	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and	and the second s		
Common Misconceptions	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	carboxylic acid, ester/esterification Confusing inter- and intramolecular		
	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic	carboxylic acid, ester/esterification Confusing inter- and intramolecular		
	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round	carboxylic acid, ester/esterification Confusing inter- and intramolecular	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Misconceptions	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Misconceptions Homework Assessment this	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of	•	•
Misconceptions Homework Assessment this half-term	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test	group. Unit 8 Test	group. Unit 8 Test
Misconceptions Homework Assessment this half-term Career	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test LIFE SKILLS:	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS:	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS:	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test LIFE SKILLS:	group. Unit 8 Test LIFE SKILLS:	group. Unit 8 Test LIFE SKILLS:
Misconceptions Homework Assessment this half-term Career opportunities	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test LIFE SKILLS: EMPLOYMENT:	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT:	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT:	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test LIFE SKILLS: EMPLOYMENT:	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT:	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT:
Misconceptions Homework Assessment this half-term Career	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job-	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job-
Misconceptions Homework Assessment this half-term Career opportunities	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/research-scientist-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/research-scientist-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/research-scientist-	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test LIFE SKILLS: EMPLOYMENT:	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-
Homework Assessment this half-term Career opportunities	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons). Kerboodle task suitable to ability of group. Unit 1 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	Carboxylic acid, ester/esterification Confusing inter- and intramolecular bonds Kerboodle task suitable to ability of group. Unit 7 Test LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job-	group. Unit 8 Test LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job-

Employability Skills IT Skills Week 6	Aiming high Creativity Leadership Literacy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Lesson 1: 4.1.3.1/4.1.3.2 —	Aiming high Creativity Leadership Literacy Leadership Lidependence Listening Presenting Problem solving Staying positive Lesson 1: 5.1.2.4/5.1.2.6 -	Aiming high Creativity Leadership Literacy Numeracy Leadership Listening Communication Presenting Problem solving Staying positive Lesson 1: Test	Aiming high Creativity Leadership Literacy Leadership Lidependence Listening Presenting Problem solving Staying positive Unit 7 Test Lesson 1: 4.7.2.4 Carboxylic acids -	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Unit 8 Test Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive Unit 8 Test	Aiming high Creativity Leadership Literacy Leadership Lindependence Listening Presenting Problem solving Staying positive Unit 8 Test Lesson 1: 5.8.2.4 Test for chlorine
(w/b 10 th Oct)	Transition Metals/Typical Properties Lesson 2: Test Lesson 3: Feedback	Transition Metals/Typical Properties Lesson 2: Test	Lesson 2: Feedback	Esterification Lesson 2: 4.7.3.1 Addition polymerisation	Lesson 2: Test	Lesson 2: Test
Key Words Level 2 Level 3	Identify, describe, explain Nucleus, proton, neutron, electron, isotope, plum pudding model, nuclear model, Bohr model, mass number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement	Identify, describe, explain Nucleus, proton, neutron, electron, isotope, plum pudding model, nuclear model, Bohr model, mass number, proton/atomic number, group, period, property, reactivity, shell, metal, non-metal, ion, cation, anion, displacement		Identify, describe, explain Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility, alcohol, carboxylic acid, ester/esterification	Identify, describe, explain Litmus paper, bleach, electrolysis	Identify, describe, explain Litmus paper, bleach, electrolysis
Common Misconceptions	Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).	Confusion between proton and mass number, getting electronic structure the wrong way round (not doing 2 then 8 electrons).		Confusing inter- and intramolecular bonds		
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this	Unit 1 Test	Unit 1 Test	Unit 1 Test	Unit 7 Test	Unit 8 Test	Unit 8 Test
half-term Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities Employment Links	EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences	EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences	EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/research-scientist- physical-sciences	EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/chemical-engineer	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork
Week 7 (w/b 17 th Oct)	Lesson 1: Exemplar Lesson 2: Re-test Lesson 3: 4.2.1.1/4.2.1.2 – Chemical Bonds/Ionic Bonds	Lesson 1: Feedback Lesson 2:Exemplar	Lesson 1: Exemplar Lesson 2: Re-test	Lesson 1: 4.7.3.2/4.7.3.3/4.7.3.4 - Condensation polymerisation/ Amino acids/ DNA Lesson 2: Test	Lesson 1: Exemplars Lesson 2: Feedback	Lesson 1: Exemplars Lesson 2: Feedback
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice			Identify, describe, explain Alkane, alkene, fractional distillation, cracking, Bromine water, viscosity, volatility, alcohol, carboxylic acid, ester/esterification		
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding			Confusing inter- and intramolecular bonds		

Homework	Kerboodle task s	suitable to ability of	Kerboodle task	suitable to ability of	Kerboodle tas	sk suitable to ability of	Kerboodle task	suitable to ability of	Kerboodle tasl	suitable to ability of	Kerboodle task	suitable to ability of
	group		group.		group.		group.		group.		group.	
Assessment this	Unit 1 Test		Unit 1 Test		Unit 1 Test		Unit 7 Test					
half-term												
Career	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:	
opportunities	EMPLOYMENT:		EMPLOYMENT:		EMPLOYMEN	T:	EMPLOYMENT:		EMPLOYMENT	:	EMPLOYMENT	:
Employment Links							https://www.pi	rospects.ac.uk/job-	https://edu.rsc	c.org/job-	https://edu.rso	c.org/job-
							profiles/chemic	cal-engineer	profiles/analyt	<u>:ical-</u>	profiles/analyt	ical-
									chemist/40108	<u>354.article</u>	chemist/40108	354.article
Employability Skills	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy	Aiming high	<mark>Literacy</mark>	Aiming high	Literacy	Aiming high	Literacy
	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy
	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence
	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication
	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork
	Problem solving		Problem solving		Problem solvin	g	Problem solving		Problem solving		Problem solving	
	Staying positive	<u> </u>	Staying positive		Staying positive	<mark>e</mark>	Staying positive		Staying positive		Staying positive	

Autumn 2	Year 10 Chemistry	Year 10 Combined Higher	Year 10 Combined Foundation	Year 11 Chemistry	Year Combined Higher	Year Combined Foundation
Week 8 (w/b ^{31st} Oct)	Lesson 1: 4.2.1.2 Ionic bonding Lesson 2: 4.2.1.3 Ionic Compounds Lesson 3: 4.2.1.4 Covalent Bonding	Lesson 1: Re-test Lesson 2: 5.2.1.1/5.2.1.2 Chemical bonds/lonic bonding	Lesson 1: 5.2.1.1/5.2.1.2 Chemical bonds/lonic bonding Lesson 2: 5.2.1.2 Ionic Bonding	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words <mark>Level 2</mark> Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice			
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer			
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive
Notes/developme nts /standardisation comments	Lesson 1: Lesson 2: Chemical changes: determination of empirical formulae from the ratio of atoms of different kinds Lesson 3:	Lesson 1: Lesson 2: Structure, bonding and the properties of matter: changes of state of matter in terms of particle kinetics, energy transfers and the relative strength of chemical bonds and intermolecular forces; types of chemical bonding: ionic, covalent, and metallic	Lesson 1: Lesson 2: Structure, bonding and the properties of matter: changes of state of matter in terms of particle kinetics, energy transfers and the relative strength of chemical bonds and intermolecular forces; types of chemical bonding: ionic, covalent, and metallic			

Week 9 (w/b 7 th Nov)	Lesson 1: 4.2.1.4 Covalent Bonding Lesson 2: 4.2.1.5 Metallic Bonding Lesson 3: 4.2.2.1/4.2.2.2 States of Matter/State Symbols	Lesson 1: 5.2.1.2 Ionic Bonding Lesson 2: 5.2.1.3 Ionic Compounds	Lesson 1: 5.2.1.3 Ionic Compounds Lesson 2: 5.2.1.4 Covalent Bonding	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice			
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive
Week 10 (w/b 14 th Nov)	Lesson 1: 4.2.2.3 Properties of Ionic Compounds Lesson 2: 4.2.2.4 Properties of small molecules Lesson 3: 4.2.2.6 Giant covalent structures	Lesson 1: 5.2.1.4 Covalent Compounds Lesson 2: 5.2.1.4 Covalent Compounds	Lesson 1: 5.2.1.4 Covalent Compounds Lesson 2: 5.2.1.5 Metallic Bonding	Lesson 1: Exemplars Lesson 2: Feedback	Lesson 1: Exemplars Lesson 2: Feedback	Lesson 1: Exemplars Lesson 2: Feedback
Key Words Level 2 Level 3	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice			
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer			
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Problem solving	Aiming high Creativity Leadership Listening Presenting Problem solving Literacy Numeracy Independence Communication Teamwork Problem solving

Week 11 (w/b 21 st Nov)	Lesson 1: 4.2.2.5 Polymers Lesson 2: 4.2.2.7 Properties of metals and alloys Lesson 3: 4.2.2.8 Metals as conductors	Lesson 1: 5.2.1.5 Metallic Bonding Lesson 2: 5.2.2.1 The three states of matter/5.2.2.2 State symbols	Lesson 1: 5.2.2.1 The three states of matter/5.2.2.2 State symbols Lesson 2: 5.2.2.3 Properties of ionic compounds	Lesson 1: 4.8.1.1 Pure substances Lesson 2: 4.8.1.2 Formulations	Lesson 1: 5.9.1.1/5.9.1.2 The proportions of different gases in the atmosphere/ The Earth's early atmosphere Lesson 2: 5.9.1.3/5.9.1.4 How oxygen increased/How carbon dioxide decreased	Lesson 1: 5.9.1.1/5.9.1.2 The proportions of different gases in the atmosphere/ The Earth's early atmosphere Lesson 2: 5.9.1.3/5.9.1.4 How oxygen increased/How carbon dioxide decreased
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Litmus paper, bleach, electrolysis, flame spectra, spectrometer,	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding		Climate scepticism	Climate scepticism
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article
Employability Skills	Aiming high Creativity Numeracy Leadership Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
			Data Collection Week			
Week 12 (w/b 28 th Nov)	Lesson 1: 4.2.3.1 Diamond Lesson 2: 4.2.3.2 Graphite Lesson 3: 4.2.3.3 Graphene and fullerenes	Lesson 1: 5.2.2.3 Properties of ionic compounds Lesson 2: 5.2.2.4 Properties of small molecules	Lesson 1: 5.2.2.4 Properties of small molecules Lesson 2: 5.2.2.6 Giant covalent structures	Lesson 1: 4.8.1.3 Chromatography (RP) Lesson 2: 4.8.2 Identification of common gases	Lesson 1: 5.9.2.1 Greenhouse Gases Lesson 2: 5.9.2.2 Human activities which contribute to an increase in greenhouse gases in the atmosphere	Lesson 1: 5.9.2.1 Greenhouse Gases Lesson 2: 5.9.2.2 Human activities which contribute to an increase in greenhouse gases in the atmosphere
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Litmus paper, bleach, electrolysis, flame spectra, spectrometer,	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding		Climate scepticism	Climate scepticism
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Employability Skills	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy

	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive
Week 13 (w/b 5 th Dec)	Lesson 1: 4.2.4.1 Sizes of particles and their properties Lesson 2: 4.2.4.2 Uses of nanoparticles Lesson 3:	Lesson 1: 5.2.2.6 Giant covalent structures Lesson 2: 5.2.2.5 Polymers	Lesson 1: 5.2.2.5 Polymers Lesson 2: 5.2.2.7 Properties of metals and alloys	Lesson 1: 4.8.3.1 Flame Tests (RP) Lesson 2: 4.8.3.7 Flame Emission Spectroscopy	Lesson 1: 5.9.2.3/5.9.2.4 Global climate change/ The carbon footprint and its reduction Lesson 2: 5.9.3.1 Atmospheric pollutants from fuels	Lesson 1: 5.9.2.3/5.9.2.4 Global climate change/ The carbon footprint and its reduction Lesson 2: 5.9.3.1 Atmospheric pollutants from fuels
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Litmus paper, bleach, electrolysis, flame spectra, spectrometer,	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding		Climate scepticism	Climate scepticism
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/chemical-engineer	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Literacy Numeracy Independence Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive
Week 14 (w/b 12 th Dec)	Lesson 1: Test Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: 5.2.2.7 Properties of metals and alloys Lesson 2: 5.2.3 Structure and bonding of carbon	Lesson 1: 5.2.3 Structure and bonding of carbon Lesson 2: 5.2.3 Structure and bonding of carbon	Lesson 1: 4.8.3.2/4.8.3.3 Metal Hydroxides/Carbonates (RP) Lesson 2: 4.8.3.4 Halides (RP)	Lesson 1: 5.9.3.1 Atmospheric pollutants from fuels Lesson 2: 5.9.3.2 Properties and effects of atmospheric pollutants	Lesson 1: 5.9.3.1 Atmospheric pollutants from fuels Lesson 2: 5.9.3.2 Properties and effects of atmospheric pollutants
Key Words Level 2 Level 3	Identify, describe, explain lonic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Ionic, covalent, metallic, delocalised, ion, lattice	Identify, describe, explain Litmus paper, bleach, electrolysis, flame spectra, spectrometer,	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas
Common Misconceptions	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding	Confusing ionic and covalent bonding diagrams, combining the anion and cations when doing ionic bonding		Climate scepticism	Climate scepticism

Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
	group	group.	group.	group.	group.	group.
Assessment this half-term	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-
	profiles/chemical-engineer	profiles/chemical-engineer	profiles/chemical-engineer	profiles/school-science-	profiles/analytical-technician-	profiles/analytical-technician-
				technician/4012207.article	plastics/4010921.article	plastics/4010921.article
Employability Skills		Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy
	Leadership Independence Listening Communication	Leadership Independence	Leadership Independence Listening Communication	Leadership Independence Listening Communication	Leadership Independence Listening Communication	Leadership Independence Listening Communication
	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
	contract the contract to the c					
Week 15	Lesson 1: 4.3.2.1 Moles	Lesson 1: Test	Lesson 1: Test	Lesson 1: 4.8.3.5 Sulfates (RP)	Lesson 1: Test	Lesson 1: Test
(w/b 19 th - 20 th	Lesson 2: 4.3.2.2 Amounts of	Lesson 2: Exemplars	Lesson 2: Exemplars	Lesson 2: 4.8.3.6 Instrumental	Lesson 2: Feedback	Lesson 2: Feedback
Dec)	substances in equations	- P	, and the second	Methods (RP)		
	Lesson 3: 4.3.2.3 Using moles to			,		
	balance equations					
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain		
Level 2	Ionic, covalent, metallic,	Ionic, covalent, metallic,	Mole, relative formula/atomic	Litmus paper, bleach, electrolysis,		
Level 3	delocalised, ion, lattice	delocalised, ion, lattice	mass, concentration	flame spectra, spectrometer,		
Common	Confusing ionic and covalent	Confusing ionic and covalent	Just not comprehending what a			
Misconceptions	bonding diagrams, combining the	bonding diagrams, combining the	mole is			
	anion and cations when doing ionic	anion and cations when doing ionic				
	bonding	bonding				
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
	group	group.	group.	group.	group.	group.
Assessment this	Unit 2 Test	Unit 2 Test	Unit 2 Test	Unit 6 & 7 Mock	Unit 6-8 Mock	Unit 6-8 Mock
half-term						
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://www.prospects.ac.uk/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-
	profiles/chemical-engineer	profiles/chemical-engineer	profiles/chemical-engineer	profiles/school-science-	profiles/analytical-technician-	profiles/analytical-technician-
				technician/4012207.article	plastics/4010921.article	plastics/4010921.article
Employability Skills		Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork
	Presenting Teamwork Problem solving	Problem solving	Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
	Staying positive	araling bositive	Starting positive	July bositive	acaling bositive	Staling bositive

Spring 1	Year 10 Chemistry	Year 10 Combined Higher	Year 10 Combined Foundation	Year 11 Chemistry	Year Combined Higher	Year Combined Foundation
Week 16 (w/b ^{Wed} 4 th Jan)	Lesson 1: 4.3.2.4 Limiting reactants Lesson 2: 4.3.2.5 Concentration of solutions Lesson 3: 4.3.3.1 Percentage yield	Lesson 1: Feedback Lesson 2: Re-test	Lesson 1: Feedback Lesson 2: Re-test	Lesson 1: Revise for Units 6-8 Mock Lesson 2: Revise for Units 6-8 Mock Lesson 3: Revise for Units 6-8 Mock	Lesson 1: Revise for Units 6-9 Mock Lesson 2: Revise for Units 6-9 Mock	Lesson 1: Revise for Units 6-9 Mock Lesson 2: Revise for Units 6-9 Mock
Key Words Level 2 Level 3	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration			
Common	Just not comprehending what a	Just not comprehending what a	Just not comprehending what a			
Misconceptions	mole is, or what balancing is for/how to do it	mole is, or what balancing is for/how to do it	mole is, or what balancing is for/how to do it			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities Employment Links	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Preamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Problem solving Staying positive
IT Skills	,	IT2	IT2	, ,	, , ,	, 3:
Week 17 (w/b 9 th Jan)	Lesson 1: 4.3.3.2 Atom economy Lesson 2: 4.3.4 Using concentrations of solutions in mol/dm³ Lesson 3: 4.3.5 Use of amount of substance in relation to volumes of gases	Lesson 1: 5.3.1.1 Conservation of mass and balanced chemical equations Lesson 2: 5.3.1.1 Conservation of mass and balanced chemical equations	Lesson 1: 5.3.1.1 Conservation of mass and balanced chemical equations Lesson 2: 5.3.1.1 Conservation of mass and balanced chemical equations	Lesson 1: Mock Exams Lesson 2: Mock Exams Lesson 3: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words Level 2 Level 3	Identify, describe, explain Mole, relative formula/atomic mass, concentration, atom economy, percentage mass	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration			
Common Misconceptions	Just not comprehending what a mole is, or what balancing is for/how to do it	Just not comprehending what a mole is, or what balancing is for/how to do it	Just not comprehending what a mole is, or what balancing is for/how to do it			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:			
opportunities Employment Links	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article			

Employability Skills IT Skills	Aiming high Creativity Leadership Literacy Numeracy Leadership Lidependence Listening Presenting Problem solving Staying positive IT2	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork IT2	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork
11 JKIII3	112	112	112			
Week 18 (w/b 16 th Jan)	Lesson 1: Test Lesson 2: Exemplars Lesson 3: Feedback	Lesson 1: 5.3.1.2 Relative formula mass Lesson 2: 5.3.1.3 Mass changes when a reactant or product is a gas	Lesson 1: 5.3.1.2 Relative formula mass Lesson 2: 5.3.1.3 Mass changes when a reactant or product is a gas	Lesson 1: Mock Exams Lesson 2: Mock Exams Lesson 3: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words Level 2 Level 3	Identify, describe, explain Mole, relative formula/atomic mass, concentration, atom economy, percentage mass	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration			
Common Misconceptions	Just not comprehending what a mole is, or what balancing is for/how to do it	Just not comprehending what a mole is, or what balancing is for/how to do it	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.				
Assessment this half-term	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article			
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive
IT Skills	IT2	IT2	IT2			
Week 19 (w/b 23 rd Jan)	Lesson 1: Re-test Lesson 2: 4.4.1.1 Metal oxides Lesson 3: 4.4.1.2 The reactivity series	Lesson 1: 5.3.2.1 Moles Lesson 2: 5.3.2.2 Amounts of substances in equation	Lesson 1: 5.3.2.5 Concentration of solutions Lesson 2: 5.3.1.4 Chemical measurements	Lesson 1: Exemplar Lesson 2: Feedback Lesson 3: 4.9.1.1 The proportions of different gases in the atmosphere	Lesson 1: Exemplar Lesson 2: Feedback	Lesson 1: Exemplar Lesson 2: Feedback
Key Words Level 2 Level 3	Identify, describe, explain Mole, relative formula/atomic mass, concentration, atom economy, percentage mass	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas		
Common Misconceptions	Just not comprehending what a mole is, or what balancing is for/how to do it	Just not comprehending what a mole is, or what balancing is for/how to do it	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Climate scepticism	Climate scepticism	Climate scepticism

Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
- I I I I I I I I I I I I I I I I I I I	group	group.	group.	group.	group.	group.
Assessment this	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
half-term	ome o rese	ome o rese	Since resc	- Chile & Children	Since Simon	Since Simesix
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:		
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:		
Employment Links	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-		
	profiles/analytical-technician-	profiles/analytical-technician-	profiles/school-science-	profiles/analytical-technician-		
	plastics/4010921.article	plastics/4010921.article	technician/4012207.article	plastics/4010921.article		
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Literacy Leadership Lidependence Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Literacy Leadership Lindependence Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork
IT Skills	IT2	IT2	IT2	, 5.	, 5.	, 5.
Week 20 (w/b 30 th Jan)	Lesson 1: 4.4.1.3 Extraction of metals and reduction Lesson 2: 4.4.1.4 Oxidation and reduction in terms of electrons Lesson 3: 4.4.2.1 Reactions of acids with metals	Lesson 1: 5.3.2.3 Using moles to balance equations Lesson 2: 5.3.2.4 Limiting reactants	Lesson 1: Test Lesson 2: Exemplars	Lesson 1: 4.9.1.2 The Earth's early atmosphere Lesson 2: 4.9.1.3 How oxygen increased/4.9.1.4 How carbon dioxide decreased Lesson 3: 4.9.2.1 Greenhouse gases	Lesson 1: 5.10.1.1 Using the Earth's resources and sustainable development Lesson 2: 5.10.1.2 Potable water	Lesson 1: 5.10.1.1 Using the Earth's resources and sustainable development Lesson 2: 5.10.1.2 Potable water
Key Words Level 2 Level 3	Identify, describe, explain Mole, relative formula/atomic mass, concentration, atom economy, percentage mass	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching
Common	Just not comprehending what a	Just not comprehending what a	Confusing oxidation with	Climate scepticism	Climate scepticism	Climate scepticism
Misconceptions	mole is, or what balancing is	mole is, or what balancing is	reduction, using atom/electron			
•	for/how to do it	for/how to do it	when they should use ion (in electrolysis).			
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
	group	group.	group.	group.	group.	group.
Assessment this half-term	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-
	profiles/analytical-technician-	profiles/analytical-technician-	profiles/school-science-	profiles/analytical-technician-	profiles/chief-technology-officer-	profiles/chief-technology-officer-
	plastics/4010921.article	plastics/4010921.article	technician/4012207.article	plastics/4010921.article	and-co-founder-of-lixea-a- sustainable-solutions-	and-co-founder-of-lixea-a- sustainable-solutions-
Family 1999 6199	Aissis a high	Ainsing high	Aissing high	Ainsing high	company/4014063.article	company/4014063.article
Employability Skills	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
IT Skills	IT2	IT2	IT2		IT1	IT1

Week 21	Lesson 1: 4.4.2.2 Neutralisation of	Lesson 1: 5.3.2.5 Concentration of	Lesson 1: Feedback	Lesson 1: 4.9.2.2 Human activities	Lesson 1: 5.10.1.2 Potable water	Lesson 1: 5.10.1.2 Potable water
(w/b 6 th Feb)	acids and salt production Lesson 2: 4.4.2.3 Soluble salts Lesson 3: 4.4.2.3 Soluble salts (RP)	solutions Lesson 2: Test	Lesson 2: Re-test	which contribute to an increase in greenhouse gases in the atmosphere Lesson 2: 4.9.2.3 Global climate change Lesson 3: 4.9.2.4 The carbon footprint and its reduction	(RP) Lesson 2: 5.10.1.3 Waste water treatment	(RP) Lesson 2: 5.10.1.3 Waste water treatment
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Mole, relative formula/atomic mass, concentration	Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis). Just not comprehending mole is, or what balancing for/how to do it		Just not comprehending what a mole is, or what balancing is for/how to do it	Climate scepticism	Climate scepticism	Climate scepticism
Homework	Kerboodle task suitable to ability of Kerboodle task suitable to ability of		Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 3 Test	Unit 3 Test	Unit 3 Test	Unit 6-8 Mock	Unit 6-9 Mock	Unit 6-9 Mock
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-
	profiles/analytical-technician- plastics/4010921.article	profiles/analytical-technician- plastics/4010921.article	profiles/school-science- technician/4012207.article	profiles/analytical-technician- plastics/4010921.article	profiles/chief-technology-officer- and-co-founder-of-lixea-a- sustainable-solutions- company/4014063.article	profiles/chief-technology-officer- and-co-founder-of-lixea-a- sustainable-solutions- company/4014063.article
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Problem solving Staying positive
IT Skills	IT2	IT2	IT2		,	
Week 22 (w/b 13 th Feb)	Lesson 1: 4.4.2.4 The pH scale and neutralisation Lesson 2: 4.4.2.5 Titrations Lesson 3: 4.4.2.5 Titrations (RP)	Lesson 1: Feedback Lesson 2: Exemplars	Lesson 1: 5.4.1.1 Metal oxides Lesson 2: 5.4.1.2 The reactivity series	Lesson 1: 4.9.3.1 Atmospheric pollutants from fuels Lesson 2: 4.9.3.2 Properties and effects of atmospheric pollutants Lesson 3: Test	Lesson 1: 5.10.1.4 Alternative methods of extracting metals Lesson 2: 5.10.2.1 Life cycle assessment	Lesson 1: 5.10.2.1 Life cycle assessment Lesson 2: 5.10.2.2 Ways of reducing the use of resources
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion			Identify, describe, explain Pollution/pollutants, climate change, carbon footprint, evolution, particulate, global dimming, photosynthesis, greenhouse gas	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).			Climate scepticism	Climate scepticism	Climate scepticism
Homework			Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	of Kerboodle task suitable to ability of group.	

Assessment this half-term	Unit 3 Test	Unit 3 Test		Unit 3 Test	Unit 3 Test Unit 6-8 Mock			Unit 6-9 Mock		Unit 6-9 Mock		
Career opportunities Employment Links	s				LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical-technician- plastics/4010921.article		LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/chief-technology-officer- and-co-founder-of-lixea-a- sustainable-solutions- company/4014063.article		LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/chief-technology-officer- and-co-founder-of-lixea-a- sustainable-solutions- company/4014063.article			
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork
IT Skills	IT2						, 31		IT1		IT1	

Spring 2	Year 10	Chemistry	Year 10 Co	mbined Higher	Year 10 Com	bined Foundation	Year 11	L Chemistry	Year Con	nbined Higher	Year Combi	ned Foundation
Week 23 (w/b ^{27th} Feb)	acids Lesson 2: 4.4.3. electrolysis	6 Strong and weak 1 The process of 2 Electrolysis of mpounds		Lesson 2: 5.4.1.1 Metal oxides m		Lesson 1: 5.4.1.3 Extraction of metals and reduction Lesson 2: 5.4.2.1 Reactions of acids with metals Lesson 3: Revise units 6 Lesson 3: Revise units 6		e units 6-9	Lesson 1: 5.10.2 reducing the us Lesson 2: Revise	•	Lesson 1: Revise Lesson 2: Revise	
Key Words Level 2 Level 3	indicator, electi		indicator, electr		indicator, elect				Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching			
Common Misconceptions	Confusing oxidate reduction, using when they show electrolysis).	g atom/electron	Confusing oxida reduction, using when they shou electrolysis).	atom/electron	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).		Climate scepticism					
Homework	Kerboodle task group	suitable to ability of	Kerboodle task group.	suitable to ability of	Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task suitable to ability of group.		Kerboodle task group.	suitable to ability of
Assessment this half-term	Unit 4 Test		Unit 3 Test		Unit 4 Test		Unit 6-9 Mock		Full Paper 2 Mock		Full Paper 2 Mo	ck
Career opportunities Employment Links	EMPLOYMENT: EMPLOYMENT:		LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article		LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/atmospheric- chemist/4010839.article		LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/atmospheric- chemist/4010839.article		LIFE SKILLS: EMPLOYMENT: https://edu.rsc. profiles/atmosp chemist/401083	heric-		
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork
IT Skills			IT2		, 0,		, 0,		IT1		, 0,	

Notes/developme nts /standardisation comments	Lesson 1: Lesson 2: Lesson 3:	Lesson 1: Lesson 2:	Lesson 1: Lesson 2:	Lesson 1: Lesson 2: Lesson 3:	Lesson 1: Chemical and allied industries: the viability of recycling of certain materials Lesson 2:	Lesson 1: Lesson 2:
Week 24 (w/b 6 th Mar)	Lesson 1: 4.4.3.3 Using electrolysis to extract metals Lesson 2: 4.4.3.4 Electrolysis of aqueous solutions Lesson 3: 4.4.3.4 Electrolysis of aqueous solutions (RP)	Lesson 1: 5.4.1.2 The reactivity series Lesson 2: 5.4.1.3 Extraction of metals and reduction	Lesson 1: 5.4.2.2 Neutralisation of acids and salt production Lesson 2: 5.4.2.3 Soluble salts	Lesson 1: Mock Exams Lesson 2: Mock Exams Lesson 3: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion			
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Unit 4 Test	Unit 3 Test	Unit 4 Test	Unit 6-9 Mock	Full Paper 2 Mock	Full Paper 2 Mock
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/school-science- technician/4012207.article			
Employability Skills	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork
			Data Collection Week			
Week 25 (w/b 13 th Mar)	Lesson 1: 4.4.3.5 Representation of reactions at electrodes as half equations Lesson 2: Test Lesson 3: Exemplars	Lesson 1: 5.4.1.4 Oxidation and reduction in terms of electrons Lesson 2: 5.4.2.1 Reactions of acids with metals	Lesson 1: 5.4.2.3 Soluble salts (RP) Lesson 2: 5.4.2.4 The pH scale and neutralisation	Lesson 1: Mock Exams Lesson 2: Mock Exams Lesson 3: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams	Lesson 1: Mock Exams Lesson 2: Mock Exams
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion			
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Not getting that exothermic means loss of energy, and showing the product level on a reaction profile as lower than the reactant level.			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.

Assessment this	Unit 4 Test		Unit 4 Test	Unit 6-9 Mock	Full Paper 2 Mock	Full Paper 2 Mock
half-term						
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:			
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:			
Employment Links	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-			
	profiles/school-science-	profiles/school-science-	profiles/school-science-			
	technician/4012207.article	technician/4012207.article	technician/4012207.article			
Employability Skills		Aiming high Literacy				
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication
	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving	Presenting Teamwork Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
Week 26	Lesson 1: Feedback	Lesson 1: 5.4.2.2 Neutralisation of	Lesson 1: 5.4.3.1 The process of	Lesson 1: Feedback	Lesson 1: Feedback	Lesson 1: Feedback
(w/b 20 th Mar)	Lesson 2: Re-test	acids and salt production	electrolysis	Lesson 2: Exemplars	Lesson 2: Exemplars	Lesson 2: Exemplars
(11) 5 20 11101)	Lesson 3: 4.5.1.1 Energy transfer	Lesson 2: 5.4.2.2 Neutralisation of	Lesson 2: 5.4.3.2 Electrolysis of	Lesson 3: 4.10.1.1 Using the Earth's	Lesson 2. Exemplars	Lesson Z. Exemplars
	during exothermic and	acids and salt production	molten ionic compounds	resources and sustainable		
	endothermic reactions	delas and sale production	moternome compounds	development		
	Chaothernic reactions			development		
Key Words	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain	Identify, describe, explain		
Level 2	Neutralisation, oxidation,	Neutralisation, oxidation,	Neutralisation, oxidation,	Life-cycle assessment, potable,		
Level 3	reduction, thermal decomposition,	reduction, thermal decomposition,	reduction, thermal decomposition,	pure, impure desalination, osmosis,		
	indicator, electrolysis, electrode,	indicator, electrolysis, electrode,	indicator, electrolysis, electrode,	sedimentation, sterilisation,		
	cathode, anode, electrolyte, cation,	cathode, anode, electrolyte, cation,	cathode, anode, electrolyte, cation,	phytomining, bioleaching		
	anion	anion	anion	projection of the second		
Common	Confusing oxidation with	Confusing oxidation with	Not getting that exothermic means	Climate scepticism		
Misconceptions	reduction, using atom/electron	reduction, using atom/electron	loss of energy, and showing the	·		
•	when they should use ion (in	when they should use ion (in	product level on a reaction profile			
	electrolysis), constructing half-cell	electrolysis).	as lower than the reactant level.			
	equations.					
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
	group	group.	group.	group.	group.	group.
Assessment this	Unit 4 Test		Unit 4 Test	Unit 6-9 Mock	Full Paper 2 Mock	Full Paper 2 Mock
half-term						
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://nationalcareers.service.gov			
	profiles/school-science-	profiles/school-science-	.uk/job-profiles/chemist			
	technician/4012207.article	technician/4012207.article				
F. J. 100 6100	Aissing high	Aissing high	Ainsing high	Aissing high	Aireiga high	Aireire - high
Employability Skills	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy	Aiming high Literacy	Aiming high Literacy Creativity Numeracy
	Leadership Independence	Creativity Numeracy Leadership Independence	Creativity Numeracy Leadership Independence	Creativity Numeracy Leadership Independence	Creativity Numeracy Leadership Independence	Creativity Numeracy Leadership Independence
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive
IT Skills				IT1		
1.5-						
Week 27	Lesson 1: 4.5.1.1 Energy transfer	Lesson 1: 5.4.2.3 Soluble salts	Lesson 1: 5.4.3.3 Using electrolysis	Lesson 1: 4.10.1.2 Potable water	Lesson 1: Revise Units 6-10	Lesson 1: Revise Units 6-10
(w/b 27 th Mar)	during exothermic and	Lesson 2: 5.4.2.3 Soluble salts (RP)	to extract metals	(RP)	Lesson 2: Revise Units 6-10	Lesson 2: Revise Units 6-10
	I and athermic reactions (DD)	1	Lesson 2: 5.4.3.4 Electrolysis of	Lesson 2: 4.10.1.3 Waste water		1
	endothermic reactions (RP)		•			
l	Lesson 2: 4.5.1.2 Reaction profiles		aqueous solutions	treatment		

	Lesson 3: 4.5.1.3 The energy						Lesson 3: 4.10.1	4 Alternative				
	change of reactions						methods of extr					
	S .							J				
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposi indicator, electrolysis, electron	lisation, oxidation, Neutralisation, oxidation, on, thermal decomposition, or, electrolysis, electrode, indicator, electrolysis, electrode,		Neutralisation, reduction, ther indicator, elect	Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, s		sment, potable, esalination, osmosis, esterilisation,					
				, electrolyte, cation,	catnode, anode	e, electrolyte, cation,	phytomining, bi	oleaching				
Common Misconceptions	confusing oxidation with reduction, using atom/electro when they should use ion (in electrolysis), constructing half equations.	r v	anion Confusing oxidation with Confureduction, using atom/electron when they should use ion (in when		anion Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).		Climate scepticis	sm				
Homework	Kerboodle task suitable to abil	y of K	Kerboodle task :	suitable to ability of	Kerboodle task suitable to ability of		Kerboodle task suitable to ability of		Kerboodle task suitable to ability of		Kerboodle task	suitable to ability of
	group	g	group.		group. §		group.		group.		group.	
Assessment this half-term							Unit 6-9 Mock		Full Paper 2 Mo	ck	Full Paper 2 Mo	ock
Career	LIFE SKILLS:	L	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:	
opportunities	EMPLOYMENT:	E	EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:	:
Employment Links	https://edu.rsc.org/job-	_	https://edu.rsc.			lcareers.service.gov	https://edu.rsc.org/job-					
	profiles/school-science-	_	<u>profiles/school-</u>		.uk/job-profiles	s/chemist	profiles/atmosp					
	technician/4012207.article	<u>t</u>	technician/4012	2207.article			<u>chemist/401083</u>	<u> 39.article</u>				
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communic Presenting Teamwork Problem solving Staying positive	ion L	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy Independence Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive	Literacy Numeracy <mark>Independence</mark> Communication Teamwork
IT Skills	Unit 4 Test				Unit 4 Test		IT1					

Summer 1	Year 10 Chemistry	Year 10 Combined Higher	Year 10 Combined Foundation	Year 11 Chemistry	Year Combined Higher	Year Combined Foundation
Week 28 (w/b 17 th Apr)	Lesson 1: 4.5.1.3 The energy change of reactions (Practice calculations) Lesson 2: 4.5.2.1 Cells and batteries Lesson 3: 4.5.2.2 Fuel cells	Lesson 1: 5.4.2.4 The pH scale and neutralisation Lesson 2: 5.4.2.5 Strong and weak acids	Lesson 1: 5.4.3.4 Electrolysis of aqueous solutions (RP) Lesson 2: Test	Lesson 1: 4.10.2.1 Life cycle assessment Lesson 2: 4.10.2.2 Ways of reducing the use of resources Lesson 3: 4.10.3.1 Corrosion and its prevention	Lesson 1: Revise units 6-10 inc. Lesson 2: Revise units 6-10 inc.	Lesson 1: Revise units 6-10 inc. Lesson 2: Revise units 6-10 inc.
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Life-cycle assessment, potable, pure, impure desalination, osmosis, sedimentation, sterilisation, phytomining, bioleaching		
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis), constructing half-cell equations.	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis).	Climate scepticism		

Homework	Kerboodle task suitable to ability of	f Kerboodle task suitable to ability of					
Homework	group	group.	group.	group.	group.	group.	
Assessment this	Unit 5 Test	group.	Unit 5 Test	Unit 10 Test	Past Paper	Past Paper	
half-term	ome s rese		One 3 rese	One to rest	l ast raper	r ast r aper	
Career	LIFE SKILLS:						
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	
Employment Links	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	
Limployment Links	.uk/job-profiles/chemist	profiles/school-science-	.uk/job-profiles/chemist	profiles/atmospheric-	profiles/atmospheric-	profiles/atmospheric-	
	.uk/job-promes/chemist	technician/4012207.article	.dk/job-promes/chemist	chemist/4010839.article	chemist/4010839.article	chemist/4010839.article	
		teerimeran/4012207.article		CHEITIST 4010835.article	CHEMISTY 4010839. AITTICLE	chemist/4010839.article	
Employability Skills	Aiming high Literacy						
	Creativity Numeracy						
	Leadership Independence						
	Listening Communication						
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork Problem solving	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	
	Problem solving Staying positive	Problem solving Staying positive	Staying positive	Problem solving Staying positive	Problem solving Staying positive	Problem solving Staying positive	
IT Skills	Staying positive	Staying positive	Staying positive	IT1	Staying positive		
11 JKIII3				111			
Week 29	Lesson 1: Test	Lesson 1: 5.4.3.1 The process of	Lesson 1: Exemplars	Lesson 1: 4.10.3.2 Alloys as useful	Lesson 1: Revise units 6-10	Lesson 1: Revise units 6-10	
(w/b 24 th Apr)	Lesson 2: Feedback	electrolysis/5.4.3.2 Electrolysis of	Lesson 2: Feedback	materials	Lesson 2: Revise units 6-10	Lesson 2: Revise units 6-10	
	Lesson 3: Exemplars	molten ionic compounds		Lesson 2: 4.10.3.3 Ceramics,			
	·	Lesson 2: 5.4.3.3 Using electrolysis		polymers and composites			
		to extract metals		Lesson 3: 4.10.4.1 The Haber			
				process			
Key Words	Identify, describe, explain	Identify, describe, explain		Identify, describe, explain			
Level 2	Neutralisation, oxidation,	Neutralisation, oxidation,		Life-cycle assessment, potable,			
Level 3	reduction, thermal decomposition,	reduction, thermal decomposition,		pure, impure desalination, osmosis,			
	indicator, electrolysis, electrode,	indicator, electrolysis, electrode,		sedimentation, sterilisation,			
	cathode, anode, electrolyte, cation,	cathode, anode, electrolyte, cation,		phytomining, bioleaching			
	anion	anion					
Common	Confusing oxidation with	Confusing oxidation with		Climate scepticism			
Misconceptions	reduction, using atom/electron	reduction, using atom/electron					
	when they should use ion (in	when they should use ion (in					
	electrolysis), constructing half-cell	electrolysis).					
	equations.	, .					
Homework	Kerboodle task suitable to ability of						
	group	group.	group.	group.	group.	group.	
Assessment this	Unit 5 Test		Unit 5 Test	Unit 10 Test	Past Paper	Past Paper	
half-term							
Career	LIFE SKILLS:						
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	
Employment Links	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	
	.uk/job-profiles/chemist	profiles/school-science-	.uk/job-profiles/chemist	profiles/atmospheric-	profiles/atmospheric-	profiles/atmospheric-	
		technician/4012207.article		chemist/4010839.article	chemist/4010839.article	chemist/4010839.article	
Employability Skills	Aiming high Literacy						
	Creativity Numeracy						
	Leadership Independence						
	Listening Communication						
	Presenting Teamwork						
	Problem solving						
	Staying positive						
IT Skills		Unit 4 Test	IT1	IT1			
Week 30	Lesson 1: Re-test	Lesson 1: 5.4.3.4 Electrolysis of	Lesson 1: Re-test	Lesson 1: 4.10.4.2 Production and	Lesson 1: Revise units 1-5	Lesson 1: Revise units 1-5	
(w/b Tue 2 nd May)	Lesson 2: Revise Unit 1	aqueous solutions		uses of NPK fertilisers	Lesson 2: Revise units 1-5	Lesson 2: Revise units 1-5	

	Lesson 3: Revise Unit 1	Lesson 2: 5.4.3.4 Electrolysis of aqueous solutions (RP)	during exothermic and endothermic reactions Lesson 3: Exemplars Identify, describe, explain Identify, describe, explain			
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Endothermic, exothermic, energy/enthalpy change, reaction profile, bond energy sedimentation, sterilisation, phytomining, bioleaching			
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis), constructing half-cell equations.	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis), constructing half-cell equations.	Not getting that exothermic means loss of energy, and showing the product level on a reaction profile as lower than the reactant level.	Climate scepticism		
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Assessment this half-term	Unit 5 Test	Unit 4 Test	group. Unit 5 Test	group. Unit 10 Test	Past Paper	Past Paper
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT: https://nationalcareers.service.gov .uk/job-profiles/chemist	LIFE SKILLS: EMPLOYMENT: https://nationalcareers.service.gov .uk/job-profiles/chemist	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article	LIFE SKILLS: EMPLOYMENT: https://edu.rsc.org/job- profiles/analytical- chemist/4010854.article
Employability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Pramwork
IT Skills Notes/developme nts /standardisation comments	Lesson 1: Lesson 2: Lesson 3:	Lesson 1: Lesson 2:	IT1 Lesson 1: Lesson 2:	IT1 Lesson 1: Lesson 2: Lesson 3:	Lesson 1: Lesson 2:	Lesson 1: Lesson 2:
Week 31 (w/b 8 th May)	Lesson 1: Revise Unit 2 Lesson 2: Revise Unit 2 Lesson 3: Revise Unit 2	Lesson 1: 5.4.3.5 Representation of reactions at electrodes as half equations Lesson 2: Test	Lesson 1: 5.5.1.1 Energy transfer during exothermic and endothermic reactions (RP) Lesson 2: 5.5.1.2 Reaction profiles	Lesson 1: Feedback Lesson 2: Revise units 1-5 Lesson 3: Revise units 1-5	Lesson 1: Test Lesson 2: Exemplars	Lesson 1: Test Lesson 2: Exemplars
Key Words Level 2 Level 3	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Neutralisation, oxidation, reduction, thermal decomposition, indicator, electrolysis, electrode, cathode, anode, electrolyte, cation, anion	Identify, describe, explain Endothermic, exothermic, energy/enthalpy change, reaction profile, bond energy			
Common Misconceptions	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis), constructing half-cell equations.	Confusing oxidation with reduction, using atom/electron when they should use ion (in electrolysis), constructing half-cell equations.	Not getting that exothermic means loss of energy, and showing the product level on a reaction profile as lower than the reactant level.			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.

opportunities	LIFE SKILLS:	LIFE SKILLS:					
opportunities	LIFE SKILLS:	I LIEE SKILLS:					
• •			LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	
Employment Links	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	
	https://nationalcareers.service.gov	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	
	.uk/job-profiles/chemist	.uk/job-profiles/chemist	profiles/analytical-	profiles/analytical-	profiles/analytical-	profiles/analytical-	
		<u> </u>	chemist/4010854.article	chemist/4010854.article	chemist/4010854.article	chemist/4010854.article	
Employability Chille	Aiming high Literacy	Aiming high Literacy					
	Aiming high Literacy Creativity Numeracy		Aiming high Literacy Creativity Numeracy				
	, , , , , , , , , , , , , , , , , , ,		•				
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	
	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	
IT Skills			IT1				
Week 32	Lesson 1: Revise Unit 3	Lesson 1: Exemplar	Lesson 1: Test	Lesson 1: Revise units 1-5	Lesson 1: Feedback	Lesson 1: Feedback	
(w/b 15 th May)	Lesson 2: Revise Unit 3	Lesson 2: Feedback	Lesson 2: Exemplars	Lesson 2: Revise units 1-5	Lesson 2: Revise units 1-5	Lesson 2: Revise units 1-5	
• • •	Lesson 3: Revise Unit 3		•	Lesson 3: Revise units 1-5			
	Lesson of Nevise office			Lesson of Nevise annes 1 5			
Key Words	Identify, describe, explain		Identify, describe, explain				
Level 2	Neutralisation, oxidation,		Endothermic, exothermic,				
Level 3	reduction, thermal decomposition,		energy/enthalpy change, reaction				
	indicator, electrolysis, electrode,		profile, bond energy				
	cathode, anode, electrolyte, cation,						
	<mark>anion</mark>						
Common	Confusing oxidation with		Not getting that exothermic means				
	reduction, using atom/electron		loss of energy, and showing the				
-	when they should use ion (in		product level on a reaction profile				
	electrolysis), constructing half-cell		as lower than the reactant level.				
			as lower than the reactant level.				
	equations.			W. L. H. & L. W. L. & L. W. C.	W. L		
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	
	group	group.	group.	group.	group.	group.	
Assessment this	Unit 5 Test	Unit 4 Test	Unit 5 Test	Unit 10 Test	Past Paper	Past Paper	
half-term							
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:	
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:	
	https://nationalcareers.service.gov	https://nationalcareers.service.gov	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	https://edu.rsc.org/job-	
	.uk/job-profiles/chemist	.uk/job-profiles/chemist	profiles/analytical-	profiles/analytical-	profiles/analytical-	profiles/analytical-	
	.uk/job promes/enemist	.dk/job promes/enemise	chemist/4010854.article	chemist/4010854.article	chemist/4010854.article	chemist/4010854.article	
Facility Cliffs	Alicelia a bilab	Attacks a labels					
	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy	
	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	Leadership Independence	
	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	Listening Communication	
	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	Presenting Teamwork	
	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	Problem solving	
17 CI 11	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	Staying positive	
IT Skills			IT1				
	Lesson 1: Revise Unit 4	Lesson 1: Re-test	Lesson 1: Feedback	Lesson 1: Revise units 6-10	Lesson 1: Revise units 1-5	Lesson 1: Revise units 1-5	
(w/b 22 nd May)	Lesson 2: Revise Unit 4	Lesson 2: 5.5.1.1 Energy transfer	Lesson 2: Re-test	Lesson 2: Revise units 6-10	Lesson 2: Revise units 1-5	Lesson 2: Revise units 1-5 inc.	
	Lesson 3: Revise Unit 4	during exothermic and		Lesson 3: Revise units 6-10			
• •							
• •		endotnermic reactions					
		endothermic reactions Identify describe explain					
Key Words		Identify, describe, explain					
Key Words Level 2		Identify, describe, explain Endothermic, exothermic,					
Key Words		Identify, describe, explain					

Common			Not getting the	at exothermic means								
Misconceptions			loss of energy,	and showing the								
			product level of	on a reaction profile								
			as lower than	the reactant level.								
Homework	Kerboodle tasl	suitable to ability of	Kerboodle tasl	suitable to ability of	Kerboodle tas	sk suitable to ability of	Kerboodle task	suitable to ability of	Kerboodle tas	k suitable to ability of	Kerboodle tas	sk suitable to ability of
	group		group.		group.		group.		group.		group.	
Assessment this	Unit 5 Test		Unit 4 Test		Unit 5 Test		Unit 10 Test		Past Paper		Past Paper	
half-term												
Career	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:	
opportunities	EMPLOYMENT	:	EMPLOYMENT	:	EMPLOYMEN	T:	EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:	
Employment Links	https://nation	alcareers.service.gov	https://nation	alcareers.service.gov	https://edu.rsc.org/job-		https://edu.rsc.org/job-		https://edu.rsc.org/job-		https://edu.rs	sc.org/job-
	.uk/job-profile	s/chemist	.uk/job-profile	s/chemist	profiles/analytical-		profiles/analyti	<u>cal-</u>	profiles/analy	<u>tical-</u>	profiles/analy	rtical-
					chemist/4010854.article		chemist/4010854.article		chemist/4010854.article		chemist/4010854.article	
Employability Skills	Aiming high	Literacy	Aiming high	Literacy	Aiming high	<mark>Literacy</mark>	Aiming high	Literacy	Aiming high	Literacy	Aiming high	Literacy
	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy
	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	Independence	Leadership	<u>Independence</u>
	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication	Listening	Communication
	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork
	Problem solving		Problem solving		Problem solvin	g	Problem solving		Problem solving	g	Problem solvin	g
	Staying posit	<mark>ive</mark>	Staying positive		Staying positive	<mark>e</mark>	Staying positive		Staying positive	<u> </u>	Staying positive	2
IT Skills					IT1							

Summer 2	Year 1	0 Chemistry	Year 10 Co	ombined Higher	Year 10 Con	nbined Foundation	Year 11 Chemistry	Year 11 Combined Higher	Year 11 Combined Foundat
Week 34	Lesson 1: Revis	e Unit 5	Lesson 1: 5.5.1	.1 Energy transfer	Lesson 1: Revi	se Unit 1			
(w/b ^{5th} Jun)	Lesson 2: Revis	e Unit 5	during exother	<u> </u>	Lesson 2: Revi	se Unit 1			
	Lesson 3: Revis	e Unit 5	endothermic re	eactions (RP)					
			Lesson 2: 5.5.1	.2 Reaction profiles					
Key Words			Identify, descri	<mark>be, explain</mark>					
Level 2			Endothermic, e	exothermic,					
Level 3			energy/enthalpy change, reaction						
			profile, bond e	<mark>nergy</mark>					
Common			Not getting that	it exothermic means					
Misconceptions				and showing the					
			•	n a reaction profile					
			as lower than the reactant level.						
Homework Kerboodle to		erboodle task suitable to ability of Kerboodle task suitable to ability of		Kerboodle tasl	suitable to ability of				
	group		group.		group.				
Assessment this	Paper 1 – Full		Paper 1 - Full		Paper 1 - Full				
half-term									
Career	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:				
opportunities	EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:				
Employment Links						prospects.ac.uk/job-			
	profiles/chemic		.uk/job-profile		profiles/chemi				
Employability Skills		Literacy	Aiming high	Literacy	Aiming high	Literacy			
	Creativity Leadership	Numeracy <mark>Independence</mark>	Creativity Leadership	<mark>Numeracy</mark> Independence	Creativity Leadership	Numeracy <mark>Independence</mark>			
	Listening	Communication	Listening	Communication	Listening	Communication			
	Presenting	Teamwork	Presenting	Teamwork	Presenting	Teamwork			
	Problem solving		Problem solving		Problem solving				
	Staying positive		Staying positive		Staying positive				

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Week 35 (w/b 12 th Jun)	Lesson 1: Revise Unit 1 Lesson 2: Revise Unit 1	Lesson 1: 5.5.1.3 The energy	Lesson 1: Revise Unit 2 Lesson 2: Revise Unit 2
(w/b 12 Jun)	Lesson 3: Revise Unit 1	change of reactions Lesson 2: 5.5.1.3 The energy	Lesson 2: Revise Offit 2
	Lesson 5. Revise Offic 1	change of reactions (Practice	
		calculations)	
Key Words		Identify, describe, explain	
Level 2		Endothermic, exothermic,	
Level 3		energy/enthalpy change, reaction	
		profile, bond energy	
Common		Not getting that exothermic means	
Misconceptions		loss of energy, and showing the	
		product level on a reaction profile	
		as lower than the reactant level.	
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
A	group	group.	group.
Assessment this half-term	Paper 1 - Full	Paper 1 - Full	Paper 1 - Full
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities	EMPLOYMENT:	EMPLOYMENT:	EMPLOYMENT:
Employment Links	https://www.prospects.ac.uk/job-	https://nationalcareers.service.gov	https://www.prospects.ac.uk/job-
	profiles/chemical-engineer	.uk/job-profiles/chemist	profiles/chemical-engineer
Employability Skills	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
	Creativity Numeracy	Creativity <mark>Numeracy</mark>	Creativity Numeracy
	Leadership Independence	Leadership Independence	Leadership Independence
	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork	Listening Communication Presenting Teamwork
	Problem solving	Problem solving	Problem solving
	Staying positive	Staying positive	Staying positive
IT Skills			
Notes/developme	Lesson 1:	Lesson 1: Energy changes in	Lesson 1:
nts	Lesson 2:	chemistry: Bond breaking, bond	Lesson 2:
/standardisation	Lesson 3:	making, activation energy and	
comments		reaction profiles (qualitative).	
		Lesson 2:	
Week 36	Lesson 1: Mock Exams	Lesson 1: Mock Exams	Lesson 1: Mock Exams
(w/b 19 th Jun)	Lesson 2: Mock Exams	Lesson 2: Mock Exams	Lesson 2: Mock Exams
	Lesson 3: Mock Exams		
Key Words			
Level 2			
Level 3			
Common			
Misconceptions			W 1 11 11 11 11 11 11 11 11 11 11 11 11
Homework	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of	Kerboodle task suitable to ability of
Assessment this	group Paper 1 – Full	group. Paper 1 – Full	group. Paper 1 - Full
half-term	raper I = rull	rapei 1	rapei I-ruii
Career			
opportunities			
Employment Links			
Employability Skills	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
	Creativity Numeracy	Creativity Numeracy	Creativity Numeracy

Week 37	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Lesson 1: Mock Exams	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Lesson 1: Mock Exams	Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive Lesson 1: Mock Exams
(w/b 26 th Jun)	Lesson 2: Mock Exams Lesson 3: Mock Exams	Lesson 2: Mock Exams	Lesson 2: Mock Exams
Key Words Level 2 Level 3			
Common Misconceptions			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Paper 1 – Full	Paper 1 – Full	Paper 1 - Full
Career opportunities Employment Links	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:	LIFE SKILLS: EMPLOYMENT:
Employability Skills	Aiming high Creativity Numeracy Leadership Independence Listening Communication Presenting Teamwork Problem solving Staying positive	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Listeracy Numeracy Independence Communication Teamwork Pramwork	Aiming high Creativity Leadership Listening Presenting Problem solving Staying positive Literacy Numeracy Independence Communication Teamwork Teamwork
Week 38	Losson 1: V10 Work Experience	Lesson 1: Y10 Work Experience	Lesson 1: Y10 Work Experience
(w/b 3 rd Jul)	Lesson 1: Y10 Work Experience Week Lesson 2: Y10 Work Experience Week Lesson 3: Y10 Work Experience Week	Week Lesson 2: Y10 Work Experience Week	Week Lesson 2: Y10 Work Experience Week
Key Words Level 2 Level 3			
Common Misconceptions			
Homework	Kerboodle task suitable to ability of group	Kerboodle task suitable to ability of group.	Kerboodle task suitable to ability of group.
Assessment this half-term	Paper 1 – Full	Paper 1 – Full	Paper 1 - Full
Career	LIFE SKILLS:	LIFE SKILLS:	LIFE SKILLS:
opportunities Employment Links	EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	EMPLOYMENT: https://www.prospects.ac.uk/job-profiles/chemical-engineer	EMPLOYMENT: https://www.prospects.ac.uk/job- profiles/chemical-engineer
Employability Skills	Aiming high Creativity Leadership Literacy Numeracy Independence	Aiming high Creativity Leadership Literacy Numeracy Independence	Aiming high Creativity Leadership Literacy Numeracy Leadership

			1				
	Listening	Communication	Listening	Communication	Listening	Communication	
	_	Teamwork	Presenting	Teamwork	Presenting	Teamwork	
	Problem solving		Problem solving		Problem solving		
	Staying positive		Staying positive		Staying positive		
Notes/developme	Lesson 1:		Lesson 1:		Lesson 1:		
nts	Lesson 2:		Lesson 2:		Lesson 2:		
/standardisation	Lesson 3:						
comments							
					Data Collection	Week/Y10 Work Exp	erience Week
Week 39	Lesson 1: Exempla		Lesson 1: Exemp		Lesson 1: Exemp		
(w/b 10 th Jul)	Lesson 2: Feedba	ck	Lesson 2: Feedb	ack	Lesson 2: Feedb	ack	
	Lesson 3: RP5						
Key Words							
Level 2							
Level 3							
Common							
Misconceptions							
Homework	Kerboodle task su	uitable to ability of	Kerboodle task	suitable to ability of	Kerboodle task	suitable to ability of	
	group	, -	group.	, -	group.	,	
Assessment this	Paper 1 – Full		Paper 1 – Full		Paper 1 - Full		
half-term	·						
Career	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		
opportunities	EMPLOYMENT:		EMPLOYMENT:		EMPLOYMENT:		
Employment Links	https://www.pros	spects.ac.uk/job-	https://www.pr	ospects.ac.uk/job-	https://www.pr	ospects.ac.uk/job-	
. ,	profiles/chemical		profiles/chemica		profiles/chemic		
Employability Skills		Literacy	Aiming high	Literacy	Aiming high	Literacy	
	Creativity	Numeracy	Creativity	Numeracy	Creativity	Numeracy	
	Leadership	Independence	Leadership	Independence	Leadership	Independence	
	Listening	Communication	Listening	Communication	Listening	Communication	
	_	Teamwork	Presenting	Teamwork	Presenting	Teamwork	
	Problem solving		Problem solving		Problem solving		
	Staying positive		Staying positive		Staying positive		
14/a ala 40	Lanan 4. DDF		1 1 · DD11		1 1 · DD11		
Week 40	Lesson 1: RP5		Lesson 1: RP11		Lesson 1: RP11		
(w/b 17 th -19 th Jul)	Lesson 2:		Lesson 2: RP11		Lesson 2: RP11		
	Lesson 3:						
Homework		uitable to ability of		suitable to ability of		suitable to ability of	
	group		group.		group.		
Assessment this	Paper 1 – Full		Paper 1 – Full		Paper 1 - Full		
half-term	1155 6:00:6		1155 0		LIEE COM C		
Career	LIFE SKILLS:		LIFE SKILLS:		LIFE SKILLS:		
opportunities	EMPLOYMENT:	1.75	EMPLOYMENT:		EMPLOYMENT:	1.70	
Employment Links	https://www.pros			ospects.ac.uk/job-		ospects.ac.uk/job-	
F	profiles/chemical		profiles/chemics		profiles/chemic		
Employability Skills		Literacy	Aiming high	Literacy	Aiming high	Literacy	
	Creativity Leadership	Numeracy Independence	Creativity Leadership	Numeracy Independence	Creativity Leadership	Numeracy Independence	
	Listening	Communication	Listening	Communication	Listening	Communication	
	_	Teamwork	Presenting	Teamwork	Presenting	Teamwork	
	Problem solving	Carrivork	Problem solving	Camwork	Problem solving	. Calliwork	
	Staying positive		Staying positive		Staying positive		
	Jan Jung Positive		3107.19 POSITIVE		_ 3.0.7B POSITIVE		