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			Yea	r 10 Overview 2023-	24 – Chemistry
Date	Wk	Week	Units Studied	& Learning Outcomes	Key Concepts & Assessment
	•			8 weeks (12 Lessor	ns) (38 Days)
Tues 5-Sep	Δ	1	Overview of Unit/I	No. lessons	•
11-Sep	B	2	Structure of t	he Atom and the Periodic	
18-Sep*	A	3	 I able (7 lesso Bonding (4 lesso 	ns)	
25-Sep	R	4		5501157	
2-Oct	D	5	Lesson Sequence	<u>e of Content</u> :	
2 000	A		1, 2 & 3. Size of the	e atom, isotopes, ions &	
9-Oct	B	6	standard form (3 le	essons) e periodic table &	
16-Oct	A	7	transition metals (4 lessons)	
22 Oct	B		8, 9 & 10. Ionic bo	nding & properties (3	
25-001	D		lessons)	t molecules & properties	
			(1 lesson)	it molecules & properties	
		8	12. Polymers and	l large molecules (1	
			lesson)	Т	_
Prior			Current	Next	
Year 8 – Pe	eriodic	Explai	n trends in the	Year 12 – trends in the Periodic table &	
lable		re		orbitals	
Year 9 – at	tomic	Explain	structures and		
structu	re	propert	ties of ionic and	Year 11 – electrolysis	
		sim	ple covalent	(links to ion	
		S	tructures	formation)	
 GW: reca BI: description Table an EW: explored of struct 	all group ibe prop d proper lain trend ures in re	s of the Pe erties of e ties of dif d in group elation to	eriodic Table & differ elements in different ferent types of bond s of the Periodic Tab their bonding	rent types of bond groups of the Periodic l ole and explain properties	
Half-Term	I	1	1	7 weeks (10-11 lesso	ns) (34 Days)
6-Nov	A	9	Overview of Unit/I Bonding & propert	<u>No. lessons</u> ies of structures (11	
13-Nov	В	10	lessons)		
			Lesson Sequence	e of Content:	
20-Nov	A		1 & 2. Giant covale	ent structures (2 lessons)	
27 Nov	Р	11	3. Graphene & full	erenes (1 lesson)	
27-1000	В	12	4 & 5. Metallic bor	(1 lesson)	
4-Dec	Δ	ST1	7, 8 & 9. Revisior	n (3 lessons)	
		511	10 & 11. Feedba	ck on the exam (2	
11-Dec	В	ST1	lesson)		
18-Dec	Α				
		15			
					4
Prio	r .	<u> </u>	Current	Next	-
Year 9 – a	atomic	Expla	in structures and	Year 12 – rate of	
Struct	uie	più	percies of giant	reaction	

		cova	lent structures &			
		me	tallic structures			
		Ider	tify factors that			
		af	fect the rate of			
			reaction			
• GW: rec	all differe	ent types	of bond			
Bl: descr	ribe prop	erties pro	perties of different types	s of bond		
• EW: exp	lain prop	erties of s	structures in relation to the	heir bonding		
Christmas Holi	day			6 weeks (9 lessons) (3		
8-Jan	В		Overview of Unit/No. le	essons		
		16	Rate and extent of chere	mical reactions (9		
15-lan	A	17	,			
10 1011	В	1/	Lesson Sequence of	Content:		
22-Jan		18	1. Rate of reaction – fail (1 lesson)	clors that affect rate		
26.1	Α	19	2 & 3. Rate of reaction	– surface area (2		
29-Jan	D		4. Rate of reaction - co	oncentration (1 lesson)		
J-LEN		20	5 & 6. Rate of reaction	- temperature (2		
			iessons)7. Rate of reaction - ca	italyst (1 lessons)		
	•		8, 9 & 10. Required practical – rate of			
12-Feb		21	reaction (2 lessons)			
Prie	or		Current	Next		
Year 8 – c	chemica		xplain how factors	Year 12 – rate of		
react	tion		reaction	reaction		
Year 9 – r	eaction	5	reaction			
of me	etals		Describe ways to			
● GW·Ide	ntify som	mea ne factors	asure rate of reaction that affect rate of reaction	 วท		
Bl: Descr	ribe how	different	factors affect the rate of	reaction		
• EW: Exp	lain how	the differ	ent factors affect the rate	e of reaction using the		
collision	theory					
Half-Term			-	5 weeks (7 - 8 lesso		
26-Feb	В	22	Overview of Unit/No. le	essons		
4-Mar	A	23	 Treatment of wate 	er (3 lessons)		
11-Mar 18-Mar	В	24				
25-Mar*	A	25	Lesson Sequence of 1. Energy changes duri	<u>Content</u> : ng a reaction –		
20 11101			exothermic & endother	rmic (1 lesson)		
			2. Reversible reactions	(1 lesson)		
			5. Purity & formulation	s (1 lesson)		
	R	76	6. Potable water (1 less	son)		
	D D	26	1. Waste water (1 lesso	on)		

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-							
	Prior				Current		Next
	Year 8 –	E	Expla	ain hov	w energy is transf	erred	Year 11 – Haber
e	exothermi	IC	a	uring	chemical reaction	15	process
6	∝ ndotherm	nic	Unde	erstan	d how to treat no	tahle	Vear 12 –
	reactions		onuc	داعدan 8	waste water		Dynamic
	. caccions	-		. C			equilibrium
•	GW: Stat	e what	t an e	exother	mic & endothermic	c reactio	on are and state the
	differenc	e betw	veen	potabl	e and pure water		
•	BI: Descr	ibe wh	at ha	appens	to temperature du	ring an	exothermic and
	endother	rmic re	actio	on and	describe how potab	ble & wa	aste water are
	treated	ain in t	ormo	c of on	argy what an avath	ormic a	nd and ath armic
•	reaction	ain in t	d ovn	s or ene	ergy what an exothe	ermic al	na endothermic
	water	arean	u exp		e stages in treatme	int of pt	Stable and waste
	water						
•							
East	ter Holiday	1				6 v	veeks (9 lessons) (29
1	5-Apr	Α		27	Overview of Unit/	No. les	sons
2	2-Apr	В		28	Ireatment of Ouantitative	T water	(3 lessons)
2	9-Apr					CHEIIIIS	SU Y (U 18330115)
		A		29	Lesson Sequence	e of Co	ontent:
6	-May*	_		30	1 – 3. Required	practic	al – Water (3
	2.14	В		21	lessons)	•	v -
1	3-May	۸		31	4. QC – Relative	formu	la mass (1 lesson)
2	0_1424	A			5. QC – Moles (1	1 lessor	n)
	o-iviay				6 & 7. QC – Con	centra	tion of solutions
		-		CT2	(2 lessons)		
┝┯━	D.::	В		512	δ & 9. Revision		Novt
	Year 7 – 4	or Acids 8	2	F	xplain how to	Уеа	r 11 – vield, atom
	Alka	lis	det		ermine the mass ec		onomy, titration
	Year 8 – Che reaction		of		f solute in water		calculations
			nical				
			Understand how to Ye			au 12 – moles & quantities	
Υ	/ear 9 – rea	actions	of	cher	nical calculations		
n	netals and	balanc	ing				
	equat	ions					
•	GW: Calc	culate r	relativ	ve forn	nula mass		1 1
•	BI: Rearr	ange a	n equ	uation	to change the subje	ect of th	e calculation
•	EW: Com	iplete i	multi	i-step c	alculations		
Hell	fTorm						7 weeks (10, 11 loss
Hall		^		672	Overview of Linit	No les	sons
1		A		ST2	Quantitative	Chemis	stry (6 - 10 lessons)
		В		25	Energy change	ges (2 le	essons)
	l'-juli	Δ		22			
2	4-lun			36	Lesson Sequence	e of Co	ontent:
		В			1. Revision (1 less	on)	
	1-Jul	Α		37	2. Exam reedback	(1 lesso	
	8-Jul	В		38		cung fi	103553 (2 15330113)

15-Ju	II I			5. Quantitative Chem	istry - Moles to balance	
				equations & limiting	reactants (1 lesson)	
				6. QC - Yield (1 lesson	l)	
				7. QC - Atom econom	iy (1 lesson)	
				8. QC - Volumes of ga	ises (1 lesson)	
				9. QC - Titration & tit	ration calculations (2-3	
				lessons)		
				10. Reaction profiles	(1 lesson)	
		А	39	11 & 12. Bond energi	es (1 lesson)	
	Pr	ior		Current	Next	
Year 7	7 – Ac	ids & Al	kalis		Year 11 – vield, atom	
				Understand how to	economy, titration	
Yea	ar 8 –	Chemic	al	carry out a range of	calculations	
	reac	tions		chemical calculations	calculations	
	reac			chemical calculations	Year 12 – moles &	
Vear	• 9 _ r	eactions	of	Understand how to	auantities	
moto		d balanc	sing	draw a reaction	quantities	
meta		u Dalalic	,ing	uraw a reaction	Voor 12 ontholmu	
	equa	nions		prome	rear 12 – enthalpy	
¥ 0	0 40				changes & bond	
Year 9	Year 9 & 10 exothermic &			energies		
endot	therm	lic react	ions			
• GW	: Calc	ulate rel	lative fo	ormula mass & Draw a rea	action profile	
• BI: F	Rearra	ange an	equatio	on to change the subject o	of the calculation and	
drav	w and	label a	reactio	n profile		
• E14/-	Com	nloto m		a calculations and explain	a reaction profile in	
		piete m			a reaction prome m	
tern	terms of bond making and breaking					
•						
					(Total: 190 Dav	
					(Totall 150 Day	

* Bank Holidays

Prompt Questions

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Please revisit the prompts from last year:

- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
- For each Unit? By the end of the Year?
 - o GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)