Year 10 Summer term 1

Year 10 students will study one topic of each biology, chemistry and physics this half term.

Class 10ns/Sc1 and 10ns/Sc2	Teacher RAS	atom. 2. How hatom chan 3. How an an atom 4. What radiation? 5. What radiation aproperties 6. How decay?	is background are the types of and what are their ? o different atoms ong is something	1. Wh 2. Wh 3. Cor 4. Wh 5. How 6. How 7. Wh 8. Wh 9. How	08/05/2023 week 30 s and obtaining metals at is the key vocabulary at happens during elect e practical: Electrolysis at are the products of e w can we tell how react w do we extract less rea at is oxidation and redu y is recycling used and w can we describe rever	trolysis? of copper sulfate. electrolysis? ive metals are? active metals from their action in terms of electrolysis.	
	ОВО	B7 Animal Coordination 1. What is 2. How do 3. How do 4. How do 5. What is 6. How do 7. How do 9. What is 9. What is 6. What is 6. How do 9. H	are hormones and whe o hormones control yo o hormones control yo o hormones control yo are the stages of the moes contraception reduo hormones control the o hormones control yo s type 2 diabetes?	ur heart rate? ur blood pressure? ur metabolic rate? enstrual cycle? uce the risk of pregnale menstrual cycle and ur blood sugar levels?	l fertility?		
10ns/Sc3 and 10ns/Sc4	JBE	C9 Quantitative Chemistry					

	1. How do I	3. Core practical: Electrolysis of copper sulfate.			
	calculate relative	4. What are the products of electrolysis?			
	formula mass?	 5. How can we tell how reactive metals are? 6. How do we extract less reactive metals from their ores? 7. What is oxidation and reduction in terms of electrons? 8. Why is recycling used and how can it be better than extraction of metals from ores? 9. How can we describe reversible reactions? 10. How does the Haber process work? 			
	2. How do we				
	balance				from ores?
	equations?				
	3. How do I				
	calculate				
	empirical				
	formula?				
	Torritula:				
	4. How is mass				
	conserved in a				
	chemical				
	reaction?				
	5. How do we				
	measure the				
	amount of a				
	substance?				
	P4&5 Waves and Electromagnetic				
	 How can we describe waves? How do we measure and calculate the speed of a wave? How are waves reflected? How are waves refracted? Core practical: Investigating waves What are electromagnetic waves? Core practical: Investigating refraction. What are the parts of the EM spectrum? 				
			P6 Radioactivity		
				ecap the structure of the atom.	
				ow has the model of the atom changed over t	time?
				ow are electrons arranged in an atom?	
			4. W	hat is background radiation?	
HZA			5. W	hat are the types of radiation and what are the	heir properties?
				ow do different atoms decay?	
			7. How long is something radioactive for?8. How is radiation used?		
	9. What are the parts of	the EM			
	spectrum used for and wh	at are the			
	dangers of the EM spectru	ım?			

10ns/Sc5	CWE	1. Recap the structure of the atom. 2. How has the model of the atom changed over time? 3. How are electrons arranged in an atom? 4. What is background radiation? 5. What are the types of radiation and what are their properties? 6. How do different atoms decay? 7. How long is something radioactive for? 8. How is radiation used?	C11&12 Electrolysis and obtaining metals 1. What is the key vocabulary for electrolysis? 2. What happens during electrolysis? 3. Core practical: Electrolysis of copper sulfate. 4. What are the products of electrolysis? 5. How can we tell how reactive metals are? 6. How do we extract less reactive metals from their ores? 7. What is oxidation and reduction in terms of electrons? 8. Why is recycling used and how can it be better than extraction of metals from ores? 9. How can we describe reversible reactions? 10. How does the Haber process work?			
	BNE	1. What are hormones and where are they made? 2. How do hormones control your heart rate? 3. How do hormones control your blood pressure? 4. How do hormones control your metabolic rate? 5. What are the stages of the menstrual cycle? 6. How does contraception reduce the risk of pregnancy? 7. How do hormones control the menstrual cycle and fertility? 8. How do hormones control your blood sugar levels? 9. What is type 2 diabetes?				
10ns/Sc6	JTO	1. Recap the structure of the atom. 2. How has the model of the atom changed over time? 3. How are electrons arranged in an atom? 4. What is background radiation? 5. What are the types of radiation and what are their properties? 6. How do different atoms decay? 7. How long is something radioactive for? 8. How is radiation used?	C11&12 Electrolysis and obtaining metals 1. What is the key vocabulary for electrolysis? 2. What happens during electrolysis? 3. Core practical: Electrolysis of copper sulfate. 4. What are the products of electrolysis? 5. How can we tell how reactive metals are? 6. How do we extract less reactive metals from their ores? 7. What is oxidation and reduction in terms of electrons? 8. Why is recycling used and how can it be better than extraction of metals from ores? 9. How can we describe reversible reactions? 10. How does the Haber process work?			