

Chemistry 2nd Year Scheme of Work 2024-25

w/b	Content	Test	Practical
Sep 9 th	5.1.2 Equilibria		
Sep 16 th	5.1.2 Equilibria		4. Measuring an equilibrium constant
Sept 23 rd	5.1.3 Acids (fundamentals)		
Sep 30 th	5.1.3 Acids, bases, buffers	1. October test	5. Finding K_a for CH_3COOH
Oct 7 th	5.1.3 Acids, bases, buffers		7. pH – acids and buffers
Oct 14 th	5.2.1 Lattice enthalpy		6. ASSESSED PRACTICAL PAG 11 Titration curves
Oct 21 st	5.2.1 Lattice enthalpy	2. November test	
Autumn ½ term: Oct 28 th – Nov 1 st			
Nov 4 th	5.2.2 Entropy and free energy		8. Determination of enthalpy change of solution
Nov 11 th	5.2.3 Electrode potentials		9. ASSESSED PRACTICAL PAG 8 Electrochemical cells 2
Nov 18 th	5.2.3 Electrode potentials		10. Investigating the effect of changing concentration on cell potential 11. Using SEP values to predict whether reactions should occur Library session: research skills
Nov 25 th	5.2.3 Storage cells and fuels cells 5.2.3 Redox chemistry: titrations and calculations		13. ASSESSED PRACTICAL PAG 12 Investigating Fe tablets: research element (h/w)
Dec 2 nd	5.3.1 Transition metals	3. December test	13. ASSESSED PRACTICAL PAG 12 Investigating Fe tablets: practical element
Dec 9 th	5.3.1 Transition metals		
Dec 16 th	5.3.1 Redox reactions and qualitative analysis		12. Reactions of Cu^{2+} , Fe^{2+} , Fe^{3+} , Mn^{2+} and Cr^{3+}
Christmas holidays: Dec 19 th – Jan 3 rd			
Jan 6 th	6.1.1 Arenes	4. January test	
Jan 13 th	6.1.1 Arenes		14. ASSESSED PRACTICAL PAG 6 Preparation of methyl 3-nitrobenzoate: part 1 + 2
Jan 20 th	6.1.1 Phenols		14. Preparation of methyl 3-nitrobenzoate: part 3 15. Reactions of phenol
Jan 27 th	6.1.2 Carbonyls	5. February test	16. Qualitative tests for organic functional groups (preparation for practical 18)
Feb 3 rd	6.1.3 Carboxylic acids and esters		17. Making esters
Feb 10 th	6.2.1 Amines 6.2.2 Amino acids, amides and chirality		
Spring ½ term: Feb 17 th – Feb 21 st			
Feb 24 th		Mid-year exam week (off-timetable)???	
Mar 3 rd	6.2.3 Polyesters and polyamides	6. March test	19. ASSESSED PRACTICAL PAG 7 Identifying organic unknowns 3: part 1
Mar 10 th	6.2.4 Carbon-carbon bond formation 6.2.5 Synthesis and synoptic organic chemistry		19. ASSESSED PRACTICAL PAG 7 Identifying organic unknowns 3: part 2
Mar 17 th	6.3.1 Chromatography and qualitative analysis 6.3.2 Spectroscopy		
Mar 24 th	6.3.2 Combined analytical techniques	7. Nitrogen test	
Mar 31 st	Past Papers		
Easter holidays: Apr 7 th – Apr 21 st			
Apr 21 st	Past Papers		
Apr 28 th	Past Papers		
May 5 th	Past Papers		
May 12 th	Past Papers		
May 19 th		Study leave begins	
Summer ½ term: May 26 th – May 30 th			
<p>Paper 1: Periodic table, elements, and physical chemistry, 2 hrs 15 mins</p> <p>Paper 2: Synthesis and analytical techniques, 2 hrs 15 mins</p> <p>Paper 3: Unified chemistry, 1 hr 30mins</p>			
Dates not yet announced!			