



# Dubai International Private School (Al-Quoz)

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.



"Empowering Minds, Inspiring Hearts, Shaping the Future"

"تمكين العقول، إلهام القلوب، تشكيل المستقبل"

Subject Matter: AP Chemistry

Semester: 2

2024 – 2025

Grade Level	12	Subject: AP Chemistry		
Teacher(s) Name	Rabab Faour			
Textbook	Chang book			
Week #	Dates		Lesson Title / Pages	CCSS / NGSS Code MOE
20	27 Jan	31 Jan	Unit 7: Equilibrium <b>7.9</b> Introduction to Le Châtelier's Principle <b>7.10</b> Reaction Quotient and Le Châtelier's Principle <b>7.11</b> Introduction to Solubility Equilibria <b>7.12</b> Common-Ion Effect	BIG IDEA 1        BIG IDEA 3
21	3 Feb	7 Feb	Unit 8: Acids and Bases <b>8.1</b> Introduction to Acids and Bases <b>8.2</b> pH and pOH of Strong Acids and Bases <b>8.3</b> Weak Acid and Base Equilibria	BIG IDEA 2
22	10 Feb	14 Feb	Unit 8: Acids and Bases	BIG IDEA 2

			<p>8.4 Acid-Base Reactions and Buffers</p> <p>8.5 Acid-Base Titrations</p> <p>8.6 Molecular Structure of Acids and Bases</p>	
23	17 Feb	21 Feb	<p>Unit 8:</p> <p>Acids and Bases</p> <p>8.7 pH and pKa</p> <p>8.8 Properties of Buffers</p> <p>8.9 Henderson-Hasselbalch Equation</p>	BIG IDEA 2
24	24 Feb	28 Feb	<p>Unit 9: Applications of Thermodynamics</p> <p>9.1 Introduction to Entropy</p> <p>9.2 Absolute Entropy and Entropy Change</p> <p>9.3 Gibbs Free Energy and Thermodynamic Favorability</p> <p>9.4 Thermodynamic and Kinetic Control</p>	BIG IDEA 4
25	3 Mar	7 Mar	<p>Unit 9: Applications of Thermodynamics</p> <p>9.5 Free Energy and Equilibrium</p> <p>9.6 Coupled Reactions.</p>	BIG IDEA 4
26	10 Mar	14 Mar	<p>Unit 9: Applications of Thermodynamics</p> <p>9.7 Galvanic (Voltaic) and Electrolytic Cells</p> <p>9.8 Cell Potential and Free Energy</p>	BIG IDEA 4

27	17 Mar	21 Mar	Unit 9: Applications of Thermodynamics 9.9 Cell Potential Under Nonstandard Conditions 9.10 Electrolysis and Faraday's Law	BIG IDEA 4
28	7 Apr	11 Apr	<b>Extra Week to finalize any gap</b>	
29	14 Apr	18 Apr	<b>Another Extra Week to finalize any gap</b>	
30	21 Apr	25 Apr	<b>Revision For AP exam</b>	
31	28 Apr	2 May	<b>Revision For AP exam</b>	
32	5 May	9 May	<b>External Exam</b>	
33	12 May	16 May	Final Exams (Grade 12)	
34	19 May	23 May	Final Exams (Grade 12)	