

LIST OF TOPICS
2025 ACADEMIC CHALLENGE REGIONAL EXAM

	Modified Topics 2025	Suggested Total	Regional	Sectional	State	Final Total
1	Auth#3 (IA) Measurement	<u>7</u>	3	2	2	7
2	Auth#3 (IA) Atoms, Molecules, and Ions	<u>7</u>	3	2	2	7
3	IA Chemical and Physical Properties	4	2	1	1	4
4	Auth#3 (IA) Percent Composition and Empirical Formula	<u>6</u>	2	2	2	6
5	GC Periodic Table and Periodic Properties	6	2	2	2	6
6	GC Electronic configuration, Orbital Diagram	6	2	2	2	6
7	IA Nomenclature Inorganic and organic	7	2	3	2	7
8	GC Chemical stoichiometry	6	3	2	1	6
9	IA Bonding, Molecular Geometry, and Polarity	5	2	2	1	5
10	GC Electromagnetic Radiation, frequency, wavelength	6	2	2	2	6
11	IA Energy, Thermochemistry, and Thermodynamics	6	2	2	2	6
12	IA Intermolecular Forces, Liquids and Solids	5	1	2	2	5
13	GC Solubility and Concentration	6	2	2	2	6
14	IA Acids-Bases and pH	7	2	2	3	7
15	Auth#3 (GC) Buffer and Ksp	<u>4</u>	1	1	2	4
16	GC Colligative Properties	4	1	1	2	4
17	IA Gases and Gas Laws	5	2	1	2	5
18	IA Radioactivity and Nuclear Chemistry	3	1	1	1	3
19	GC Chemical Equilibrium	5	1	2	2	5
20	Auth#3 (GC) Chemical Kinetics	<u>5</u>	1	2	2	5
21	Auth#3 (GC) Quantum Mechanics	<u>5</u>	1	2	2	5
22	Auth#3 (GC) Electrochemistry and Redox Reactions	<u>5</u>	2	2	1	5
	Total = 40	120	40	40	40	120

1	Iffat A 8 topics		14	14	14	42
2	Greg C 7 topics		13	13	13	39
3	Author#3 7 topics IA-20 Q, GC 19Q		13	13	13	39