



National Evaluation Series™

Test Framework Worksheet

Chemistry

Test Code
306

Notes:

		Multiple-Choice Questions (approx.)	Test Proportion (approx.)				
		CONTENT DOMAIN I—NATURE OF SCIENCE		27	18%		
Competency	0001	Understand principles and procedures of scientific inquiry.					
	0002	Understand the history and nature of science.					
	0003	Understand the relationships among science, technology, engineering, mathematics, and society.					
		CONTENT DOMAIN II—MATTER AND ATOMIC STRUCTURE		27	18%		
Competency	0004	Understand the properties of matter.					
	0005	Understand atomic theory and the periodic table.					
	0006	Understand the kinetic molecular theory, the nature of phase changes, and the gas laws.					
		CONTENT DOMAIN III—ENERGY AND CHEMICAL BONDING		34	23%		
Competency	0007	Understand the principles of thermodynamics and calorimetry.					
	0008	Understand energy relationships in chemical bonding, chemical reactions, and physical processes.					
	0009	Understand the nomenclature and structure of inorganic and organic compounds.					
	0010	Understand chemical bonding and intermolecular forces and their effect on the properties of substances.					
		CONTENT DOMAIN IV—CHEMICAL REACTIONS		34	23%		
Competency	0011	Understand the nature of chemical reactions.					
	0012	Understand the principles of chemical equilibrium.					
	0013	Understand acid-base chemistry.					
	0014	Understand oxidation-reduction reactions and electrochemistry.					
		CONTENT DOMAIN V—STOICHIOMETRY AND SOLUTIONS		28	18%		
Competency	0015	Understand the mole concept.					
	0016	Understand stoichiometry.					
	0017	Understand the properties of solutions and colloidal suspensions.					

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