

Chemistry
Midterm Exam Blueprint
2023-24

The district common exam for Chemistry will be given during midterm exams week. The table below contains the standards that are to be assessed and the number of questions. All questions on this assessment are multiple choice.

Standard	Topic and Description	Number of Questions
SC.912.N.1.1	Scientific Processes: Define a problem based on a specific body of knowledge, for example: biology, chemistry, physics, and earth/space science, and do the following: Pose questions about the natural world, conduct systematic investigations, examine books and other sources of information to see what is already known, review what is known in light of empirical evidence, plan investigations, use tools to gather, analyze, and interpret data (this includes the use of measurement in metric and other systems, and also the generation and interpretation of graphical representations of data, including data tables and graphs), pose answers, explanations, or descriptions of events, generate explanations that explicate or describe natural phenomena (inferences), use appropriate evidence and reasoning to justify these explanations to others, communicate results of scientific investigations, and evaluate the merits of the explanations produced by others.	4
SC.912.P.8.2	Matter & Change: Differentiate between physical and chemical properties and physical and chemical changes of matter.	5
SC.912.P.8.4	Atomic Theory: Explore the scientific theory of atoms (also known as atomic theory) by describing the structure of atoms in terms of protons, neutrons and electrons, and differentiate among these particles in terms of their mass, electrical charges and locations within the atom.	4
SC.912.P.8.5	Periodic Table: Relate properties of atoms and their position in the periodic table to the arrangement of their electrons.	5
SC.912.P.8.7	Formulas: Interpret formula representations of molecules and compounds in terms of composition and structure.	4
SC.912.P.10.9	Quantum Theory: Describe the quantization of energy at the atomic level.	3
SC.912.P.8.1	States of Matter: Differentiate among the four states of matter.	5
SC.912.P.8.3	Atomic Theory: Explore the scientific theory of atoms (also known as atomic theory) by describing changes in the atomic model over time and why those changes were necessitated by experimental evidence.	4
SC.912.P.8.6	Bonding Forces: Distinguish between bonding forces holding compounds together and other attractive forces, including hydrogen bonding and van der Waals forces.	4
SC.912.P.10.18	Electromagnetism: Explore the theory of electromagnetism by comparing and contrasting the different parts of the electromagnetic spectrum in terms of wavelength, frequency, and energy, and relate them to phenomena and applications.	3
Total Points		41