



Science: Chemistry Semester 2 Final Assessment Blueprint

Year: 2024-2025

Method of Delivery: Online

Subject: Science

Administration Window: May 12-22

Resources

Chemistry Curriculum Map

Standards At-A Glance

Standard	Number of Items	Standard Description
SCI.9-12.HS.P1U1.2	1	Develop and use models for the transfer or sharing of electrons to predict the formation of ions, molecules, and compounds in both natural and synthetic processes.
SCI.9-12.HS.P1U1.3	3	Ask questions, plan, and carry out investigations to explore the cause and effect relationship between reaction rate factors.
SCI.9-12.HS+C.P1U1.3	7	Analyze and interpret data to develop and support an explanation for the relationships between kinetic molecular theory and gas laws.
SCI.9-12.HS+C.P1U1.5	12	Plan and carry out investigations to test predictions of the outcomes of various reactions, based on patterns of physical and chemical properties.
SCI.9-12.HS+C.P1U1.6	7	Construct an explanation, design a solution, or refine the design of a chemical system in equilibrium to maximize production.
SCI.9-12.HS+C.P1U1.7	11	Use mathematics and computational thinking to determine stoichiometric relationships between reactants and products in chemical reactions.
SCI.9-12.HS-PS1-7	2	Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.

* Some items may be tagged to more than one standard.

Depth of Knowledge

DOK	Number of Items
Level 1: Recall	2
Level 2: Skill/Concept	33
Level 3: Strategic Thinking	7

Item Types Included

Type	Number of Items	Description
MC	42	Multiple Choice - Select one answer