

Fifth Grade Science Curriculum Map

Throughout the science course of study, students will develop skills in scientific reasoning, scientific investigating, and scientific research while learning about the natural world through a scientific lens. These scientific and engineering practices are evident in Standards of Learning 5.1, are critical to science instruction and are to be embedded throughout the year within each unit of study.

Unit Name	Standards of Learning (SOL)	Big Ideas	Suggested Time Frame
Unit 0: Think Like a Scientist	Priority SOL: 5.1abc Essential SOL: 5.1def	Scientific and engineering practices	5 days
Unit 1: Matter	Priority SOL: 5.7c Essential SOL: 5.7ab; 5.1bd	Matter: Properties and Interactions	19 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days
Unit 2: Force, Motion, and Energy	Priority SOL: 5.2a; 5.3c; 5.9b Essential SOL: 5.2bcd; 5.3abde; 5.1abc	Energy: Transformation, Conservation, and Relationship to Force	25 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days
Unit 3: The Energy of Light and Sound	Priority SOL: 5.5d; 5.6ab Essential SOL: 5.5abc; 5.6cd; 5.1ae	Light and Sound: Characteristics and Behaviors	25 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days
Unit 4: Electrical Energy	Priority SOL: 5.4b, 5.9b Essential SOL: 5.4acd; 5.9c; 5.1b	Electricity: Uses, Transformations, and Flow	22 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days
Unit 5: Life Systems & Ecosystem Interactions	Priority SOL: 4.2bc; 4.3ab; 4.4b; 4.7c Essential SOL: 4.2a; 4.3cd; 5.1acd	Interrelationships within the Ecosystem	24 days
Buffer Days: Assessment, Enrichment, and Remediation			4 days
Unit 6: Earth/Space Systems & Earth Resources	Priority SOL: 4.4ac; 4.6cd; 5.8abc; 5.9ab Essential SOL: 4.5abc; 4.6ab; 4.7ab; 4.8abcd; 5.8de; 5.1ae	Earth and Space: Organization, Patterns, and Changes	20 days
Buffer Days: Assessment, Enrichment, and Remediation			5 days
Unit 7: Show What You Know	Review SOL based on data. Students should have differentiated learning opportunities to continue to show mastery of year-long expectations.		13 days

Essential Standards are "those standards that support, connect to, or enhance the **Priority Standards**. They are taught within the context of the Priority Standards, but do not receive the same degree of instruction and assessment emphasis as do the **Priority Standards**. (Ainsworth, 2013, 2019).