

## **Science 21 Proposed NYSSLS Scope and Sequence**

UPDATED February 2020

K-2 Band of Instruction				
The Science 21 curriculum follows the progression of the NYSSLS by carefully constructing grade appropriate instruction to help students construct an understanding of the Disciplinary Core Ideas, Science and Engineering Practices, and the Crosscutting Concepts.				
Grade	Unit 1	Unit 2	Unit 3	
K	Weather and Climate	Forces and Interactions: Pushes and Pulls	Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment	
G1	Space Systems: Patterns and Cycles	Waves: Light and Sound	Structure, Function and Information Processing	
G2	Structure and Properties of Matter	Earth's Systems: Processes That Shape the Earth	Interdependent Relationships in Ecosystems	
3-5 Band of Instruction				
The Science 21 curriculum follows the progression of the NYSSLS by building on the K-2 band of instruction and advancing the students' understanding of science through the mastery of the Disciplinary Core Ideas, Science and Engineering Practices, and the Crosscutting Concepts.				
Grade	Unit 1	Unit 2	Unit 3	Unit 4
G3	Forces and Interactions	Interdependent Relationships in Ecosystems	Weather and Climate	Inheritance and Variation of Traits
G4	Structure, Function, and Information Processing	Energy	Waves: Waves and Information	Earth's Systems: Processes That Shape the Earth
G5	Space Systems: Stars and the Solar System	Structure and Properties of Matter	Earth's Systems	Matter and Energy in Organisms and Ecosystems
Engineering Design				
Engineering is infused in each unit and not treated as a separate subject area. Science 21 uses a progressive design model taught explicitly in a small mini-unit in each grade level and then explored to each unit as an application of engineering principles in the different scientific disciplines.				