Next Generation Science Standards

NGSS Standard	Disciplinary Core Idea	Kit (see key in footnote)																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Physical Sciences																		
PS1.A	Structure and Properties of Matter	■	■		■													
PS1.B	Chemical Reactions		■															
PS1.C	Nuclear Processes																	
PS2.A	Forces and Motions																	
PS2.B	Types of Interactions	■																
PS3.A	Definitions of Energy		■															
PS3.B	Conservation of Energy and Energy Transfer		■															
PS3.C	Relationship Between Energy and Forces		■															
PS3.D	Energy in Chemical Processes and Everyday Life		■															
PS4.A	Wave Properties			■														
PS4.B	Electromagnetic Radiation		■	■														
PS4.C	Information Technologies and Instrumentation			■														
Life Sciences																		
LS1.A	Structure and Function					■		■					■					
LS1.B	Growth and Development of Organisms							■										
LS1.C	Organization for Matter and Energy Flow in Organisms						■		■									■
LS1.D	Information Processing							■										
LS2.A	Interdependent Relationships in Ecosystems				■		■	■				■				■		
LS2.B	Cycles of Matter and Energy Transfer in Ecosystems				■				■									■
LS2.C	Ecosystem Dynamics, Functioning, and Resilience						■					■	■					■
LS2.D	Social Interactions and Group Behavior															■		
LS3.A	Inheritance of Traits																	
LS3.B	Variation of Traits																	
LS4.A	Evidence of Common Ancestry and Diversity									■								
LS4.B	Natural Selection																	
LS4.C	Adaptation																	
LS4.D	Biodiversity and Humans							■										

Earth and Space Sciences																	
ESS1.A	The Universe and Its Stars																
ESS1.B	Earth and the Solar System																
ESS1.C	The History of Planet Earth									■							
ESS2.A	Earth Materials and Systems				■					■	■	■	■				
ESS2.B	Plate Tectonics and Large-Scale System Interactions																
ESS2.C	The Roles of Water in Earth's Surface Processes											■		■	■		■
ESS2.D	Weather and Climate										■						
ESS2.E	Biogeology				■							■					
ESS3.A	Natural Resources	■			■									■	■		■
ESS3.B	Natural Hazards																■
ESS3.C	Human Impacts on Earth Systems										■	■		■	■		■
ESS3.D	Global Climate Change										■						
Engineering, Technology, and Applications of Science																	
ETS1.A	Defining and Delimiting an Engineering Problem															■	
ETS1.B	Developing Possible Solutions		■													■	
ETS1.C	Optimizing the Design Solution															■	

1. High-Tech Rocks!
2. Get Energized
3. Get Critical
4. Plankton to Plastic Pollution
5. Going Viral
6. Secrets of the Hibernators
7. Bees, Please!
8. Soils of Fire
9. Really Ancient Fossils
10. Vital Ice
11. Anchialine Pools
12. Fossil Forests
13. From Forests to Faucets
14. Salts of the Earth
15. Wonder of Wolves
16. Solar Cars
17. GetWET

Science and Engineering Practices:

- ☑ Asking questions and defining problems
- ☑ Developing and using models
- ☑ Planning and carrying out investigations
- ☑ Analyzing and interpreting data
- ☑ Using mathematics and computational thinking
- ☑ Constructing explanations and designing solutions
- ☑ Engaging in argument from evidence
- ☑ Obtaining, evaluating, and communicating information.

Crosscutting Concepts:

- ☑ Patterns
- ☑ Cause and effect
- ☑ Scale, proportion, and quantity
- ☑ Systems and system models
- ☑ Energy and matter in systems
- ☑ Structure and function
- ☑ Stability and change of systems