

## ALIGNMENT OF SCOPE AND SEQUENCE WITH NEW YORK STATE STANDARDS FOR GRADES 3-8

The following chart shows how the Scope and Sequence aligns with the science standards for grades 3-8 for New York State. The columns are the principles and major strands of concepts on the conceptual flow diagram for that principle; the rows are the state standards. For New York, there are multiple

standards underlying each key question. There are three levels of alignment:

- [blank] = no alignment
- x = aligns with one standard
- XX = aligns with multiple standards

New York State Standards	Principle 1			Principle 2		Principle 3			ciple		ciple 5	Pr	inciple	e 6	Principle 7		
Grade 3	Α	В	С	Α	В	Α	В	Α	В	Α	В	Α	В	С	Α	В	С
What are some of the properties of matter?	х				х												
What are some ways that energy can be transformed from one form to another?						х	х	х		х							
How do simple machines help us move objects?																	
How are plants and animals well-suited to live in their environments?									х	х	XX						х
Grade 4	Α	В	С	Α	В	Α	В	А	В	Α	В	Α	В	С	Α	В	С
What role do plants and animals play in their environment?									х	х	х	х		х	х		х
What are the properties of electricity and magnetism?																	
What makes water so special?	Х	Х					Х					х					
How do natural events affect our world?	Х	х		х	XX												
Grade 5	Α	В	С	Α	В	Α	В	Α	В	Α	В	Α	В	С	Α	В	С
How do scientists gather and share information?																	
What are the processes that help shape the land?			х		х												
How does nutrition and exercise affect our health?																	
How are plants and animals in an ecosystem connected?									х	х	х	х		XX	х		х



NY State Standards	Pri	ncipl	e 1	Principle 2			Principle 3			Prin. 4		Principle 5			Principle 6					Principle 7		
Grade 6	Α	В	С	Α	В	С	Α	В	С	Α	В	Α	В	С	Α	В	С	D	Е	Α	В	С
How does energy play a role in our lives? How do machines impact our lives?			Х	х																		
How do matter and energy interact to produce weather patterns?	х	х					XX	XX							х		х					
How does the transfer of matter and energy through biological communities support diversity of living things?									х	х	Х	XX	х	х		х						
How is interdependence essential in maintaining life on Earth?									х	Х			х					х				
Grade 7	Α	В	С	Α	В	С	А	В	С	Α	В	Α	В	С	Α	В	С	D	Е	А	В	С
How do we as scientists gather and interpret evidence that Earth is continually changing?	XX			XX	х	XX	Х				Х											
How do the properties and interactions of matter and energy explain physical and chemical change?		х																				
How do human body systems function to maintain homeostasis?																						
How is homeostasis maintained in other organisms?											Х	х		XX								
Grade 8	Α	В	С	Α	В	С	Α	В	С	Α	В	Α	В	С	Α	В	С	D	Е	Α	В	С
How does life on Earth continue and adapt in response to environmental change?											Х		Х	Х								
How do we apply the laws of motion to explain the movement of objects on Earth?																						
What roles do forces play in the patterns and stability of the solar system?			х									х										
How does human consumption of resources impact the environment and our health?			х						х							х		XX	х	XX		