

Online COVID-19 High School Curriculum - Solon et al.
Supplement 2. Curriculum Alignment Chart

COVID-19: The Great Pandemic of 2020 Curriculum Alignment
to the [Next Generation Science Standards \(NGSS\)](#)

	Intro Unit		Unit 1		Unit 2				Unit 3			Unit 4		
Practices	Lesson 0.1	Lesson 0.2	Lesson 1.1	Lesson 1.2	Lesson 2.1	Lesson 2.2	Lesson 2.3	Lesson 2.4	Lesson 3.1	Lesson 3.2	Lesson 3.3	Lesson 4.1	Lesson 4.2	Lesson 4.3
1. Asking questions (science) and defining problems (engineering)	X	X									X			
2. Developing and using models				X		X	X	X	X		X	X		
3. Planning and carrying out investigations											X			
4. Analyzing and interpreting data	X	X			X	X	X	X	X	X	X	X	X	
5. Using mathematics and computational thinking	X	X	X			X						X	X	
6. Constructing explanations (science) and designing solutions (engineering)	X	X		X	X	X	X	X	X	X	X	X	X	
7. Engaging in argument from evidence	X	X			X	X		X	X			X		X
8. Obtaining, evaluating, and communicating information	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Crosscutting Concepts	Lesson 0.1	Lesson 0.2	Lesson 1.1	Lesson 1.2	Lesson 2.1	Lesson 2.2	Lesson 2.3	Lesson 2.4	Lesson 3.1	Lesson 3.2	Lesson 3.3	Lesson 4.1	Lesson 4.2	Lesson 4.3
1. Patterns	X	X			X	X	X	X	X	X	X	X		
2. Cause and effect: Mechanism and explanation	X	X		X	X	X	X	X	X	X	X		X	
3. Scale, proportion, and quantity	X	X	X			X	X	X		X		X	X	
4. Systems and system models						X	X	X	X	X	X	X	X	
5. Energy and matter: Flows, cycles, and conservation														
6. Structure and function			X	X	X			X	X	X	X		X	
7. Stability and change				X	X	X			X	X		X		

Disciplinary Core Ideas	Lesson 0.1	Lesson 0.2	Lesson 1.1	Lesson 1.2	Lesson 2.1	Lesson 2.2	Lesson 2.3	Lesson 2.4	Lesson 3.1	Lesson 3.2	Lesson 3.3	Lesson 4.1	Lesson 4.2	Lesson 4.3
<i>Core Idea LS1: From Molecules to Organisms: Structures and Processes</i>														
LS1.A: Structure and Function			X	X	X			X	X	X	X		X	
LS1.B: Growth and Development of Organisms			X											
LS1.C: Organization for Matter and Energy Flow in Organisms														
LS1.D: Information Processing										X			X	
<i>Core Idea LS2: Ecosystems: Interactions, Energy, and Dynamics</i>														
LS2.A: Interdependent Relationships in Ecosystems					X									
LS2.B: Cycles of Matter and Energy Transfer in Ecosystems														
LS2.C: Ecosystem Dynamics, Functioning, and Resilience														
LS2.D: Social Interactions and Group Behavior												X		
<i>Core Idea LS3: Heredity: Inheritance and Variation of Traits</i>														
LS3.A: Inheritance of Traits				X	X									
LS3.B: Variation of Traits				X	X									
<i>Core Idea LS4: Biological Evolution: Unity and Diversity</i>														
LS4.A: Evidence of Common Ancestry and Diversity					X	X								
LS4.B: Natural Selection				X										
LS4.C: Adaptation				X	X									
LS4.D: Biodiversity and Humans														