













































This chart identifies some of the options for unit and lesson print and digital instruction. Although the Digital Student Edition and the print Student Activity Guide are not a one-to-one match, they cover the same content and standards and share the same unit, lesson, and 5E structure.







- **Core Path** The Core path is the recommended path to cover all of the Next Generation Science Standards. At Grade K, the recommended Core path is based on 30-minute instructional segments occurring 2 times per week for approximately 30 weeks.
- **Extended Path** If you have additional time, the Extended path provides additional opportunities to explore and reinforce the science content.
- **Short-on-Time Path** If you have less time than the Core path assumes, the Short-on-Time path highlights key pieces to focus on. The Short-on-Time path covers many, but not all, of the standards.
- **Blended Path** If you need more time for science, we recommend using the Blended path. In the Blended path, you use available science instruction time plus 30 minutes of English Language Arts instruction time to explore the FUNomenal Stories in order to cover all of the standards.
- **Customized Path** While we have provided pacing estimates, you may find some things can go faster or slower in your classroom. You can make your own pacing notes in the “customize your pacing” column.





















 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit 1 Engineering Design Process	135 min (4.5, ½ hour segments)	165 min (5.5, ½ hour segments)	480 min (16, ½ hour segments)	180 min (6, ½ hour segments)	
Unit Project 			60 min (2, ½ hour segments)		
You Solve It 			30 min		
Unit Performance Task 			60 min (2, ½ hour segments)		













Lesson 1 Using a Design Process	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	255 min (8.5, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Engineer It—Explore a Problem Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Engineer It— Solve a Problem Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Problems and Solutions 			15 min		
Exploration 4 Explore and Make 			15 min		
Exploration 5 Make and Make It Better 			15 min		
Exploration 6 Make It Better 			15 min		
Elaborate FUNomenal Story—A Bigger Bubble			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Unit Review   Summative Assessment		30 min	30 min		
Activity Guide Unit 1 Test  Summative Assessment	15 min	15 min	15 min	15 min	
















(Assessment Guide)					
FUNomenal Stories Unit 1 Test  Summative Assessment (Assessment Guide)				15 min	
Other Assessments					
Unit 1 Readiness Check  (Assessment Guide)			15 min		
Beginning-of-Year Readiness Check (Assessment Guide) 			15 min		

















 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit 2 Plants and Animals	375 min (12.5, ½ hour segments)	405 min (13.5 ½ hour segments)	1020 min (34, ½ hour segments)	480 min (16, ½ hour segments)	
Unit Project 			60 min (2, ½ hour segments)		
You Solve It 			30 min		
Unit Performance Task 			60 min (2, ½ hour segments)		
Lesson 1 What Plants Need	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	240 min (8, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Explore Plants and Water Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Plants and Sunlight Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Living and Nonliving Things 			15 min		
Exploration 4 Sunlight, Water, and Soil 			15 min		
Exploration 5 Air and Space to Grow 			15 min		
Elaborate FUNomenal Story— A Plant for Raja			30 min	 30 min	



Elaborate Take It Further 			45 min (1.5, ½ hour segments)		
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Lesson 2 What Animals Need	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	240 min (8, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Explore People Needs Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Make a Pill Bug Home Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 What People Need 			15 min		
Exploration 4 What Animals Need 			15 min		
Exploration 5 Water and Air for Animals 			15 min		
Exploration 6 Food for Animals 			15 min		
Elaborate FUNomenal Story— What’s Going On in the Garden?			30 min	 30 min	
Elaborate Take It Further 			30 min		











Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check  Formative Assessment 		15 min	15 min		
Lesson 3 Where Plants and Animals Live	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	255 min (8.5, ½ hour segments)	150 min (5, ½ hour segments)	
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Match Animal Homes Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Observe Where Plants Live Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Deserts 			15 min		
Exploration 4 Forests 			15 min		
Exploration 5 Rivers 			15 min		
Exploration 6 Lakes 			15 min		
Exploration 7 Oceans 			15 min		
Elaborate FUNomenal Story— The Cactus and the Lizard			30 min	 30 min	
Elaborate Take It Further 			30 min		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	







Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Unit Review   Summative Assessment		30 min	30 min		
Activity Guide Unit 2 Test  Summative Assessment (Assessment Guide)	15 min	15 min	15 min	15 min	
FUNomenal Stories Unit 2 Test  Summative Assessment (Assessment Guide)				15 min	
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Other Assessments					
Unit 2 Readiness Check  (Assessment Guide)			15 min		
Performance-Based Assessment— No Place Like Home Task 1 (Assessment Guide) 			30 min		
Performance-Based Assessment— No Place Like Home Task 2 (Assessment Guide) 			30 min		
Performance-Based Assessment— No Place Like Home Part 2 (Assessment Guide) 			15 min		

 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit 3 Resources in Environments	285 min (9.5, ½ hour segments)	315 min (10.5, ½ hour segments)	735 min (24.5, ½ hour segments)	360 min (12, ½ hour segments)	
Unit Project 			60 min (2, ½ hour segments)		
You Solve It 			30 min		
Unit Performance Task 			60 min (2, ½ hour segments)		
Lesson 1 Plants and Animals Make Changes	150 min (5, ½ hour segments)	150 min (5, ½ hour segments)	255 min (8.5, ½ hour segments)	180 min (6, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Look at a Worm Home Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Look at Plant Changes Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Plan a Playground Hands-On Activity 	30 min	30 min	30 min	30 min	
Exploration 4 Changes All Around 			15 min		
Exploration 5 Plant and Animal Changes 			15 min		
Exploration 6 Changes to the Environment 			15 min		

Elaborate FUNomenal Story— The Sparrows and the Squirrel			30 min	 30 min	
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Elaborate Take It Further 			30 min		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Lesson 2 Natural Resources	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	240 min (8, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Match the Resource Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Engineer It—Find Solutions for Trash Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Harming Natural Resources 			15 min		
Exploration 4 Reduce 			15 min		
Exploration 5 Reuse and Recycle 			15 min		
Elaborate FUNomenal Story— Trash to Treasure			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		









Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit Review   Summative Assessment		30 min	30 min		
Activity Guide Unit 3 Test  Summative Assessment (Assessment Guide)	15 min	15 min	15 min	15 min	
FUNomenal Stories Unit 3 Test  Summative Assessment (Assessment Guide)				15 min	
Other Assessments					
Unit 3 Readiness Check  (Assessment Guide)			15 min		
Mid-Year Test  (Assessment Guide)			30 min		
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit 4 Weather	405 min (13.5, ½ hour segments)	435 min (14.5, ½ hour segments)	1125 min (37.5, ½ hour segments)	510 min (17, ½ hour segments)	
Unit Project 			60 min (2, ½ hour segments)		
You Solve It 			30 min		






Unit Performance Task 			60 min (2, ½ hour segments)		
Lesson 1 Protection from the Sun	150 min (5, ½ hour segments)	150 min (5, ½ hour segments)	255 min (8.5, ½ hour segments)	180 min (6, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Test the Sun’s Heat Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Engineer It—Plan and Build Shade Hands-On Activity  	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	
Exploration 3 Heat, Light, and Shade 			15 min		
Exploration 4 Engineers at Work 			15 min		
Elaborate FUNomenal Story— The Tent			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		

 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		










Lesson 2 Weather Patterns	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	225 min (7.5, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Measure Temperature Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Observe Patterns in Weather Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Weather 			15 min		
Exploration 4 The Seasons 			15 min		
Exploration 5 Using Weather Tools 			15 min		
Elaborate FUNomenal Story—Whatever the Weather			30 min	 30 min	
Elaborate Take It Further 			30 min		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Lesson 3 Prepare for Weather	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	225 min (7.5, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path

Exploration 1 Explore Weather Reports Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Prepare for Severe Weather Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Weather Report 			15 min		
Exploration 4 Prepare for Weather 			15 min		
Elaborate FUNomenal Story— Be Prepared!			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Unit Review   Summative Assessment		30 min	30 min		
Activity Guide Unit 4 Test  Summative Assessment (Assessment Guide)	15 min	15 min	15 min	15 min	
FUNomenal Stories Unit 4 Test  Summative Assessment (Assessment Guide)				15 min	
Other Assessments					
Unit 4 Readiness Check  (Assessment Guide)			15 min		

 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Performance-Based Assessment— A Place in the Sun Task 1 (Assessment Guide) 			60 min (2, ½ hour segments)		
Performance-Based Assessment— A Place in the Sun Task 2 (Assessment Guide) 			45 min (1.5, ½ hour segments)		
Performance-Based Assessment— A Place in the Sun Part 2 (Assessment Guide) 			15 min		
Performance-Based Assessment— Hello, Weather Task 1 (Assessment Guide) 			30 min		
Performance-Based Assessment— Hello, Weather Task 2 (Assessment Guide) 			45 min (1.5 ½ hour increments)		
Performance-Based Assessment— Hello, Weather Part 2 (Assessment Guide) 			15 min		

 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Unit 5 Pushes and Pulls	285 min (9.5, ½ hour segments)	315 min (10.5, ½ hour segments)	870 min (29, ½ hour segments)	360 min (12, ½ hour segments)	
Unit Project 			60 min (2, ½ hour segments)		
You Solve It 			30 min		
Unit Performance Task 			60 min (2, ½ hour segments)		
Lesson 1 All About Motion	120 min (4, ½ hour segments)	120 min (4, ½ hour segments)	240 min (8, ½ hour segments)	150 min (5, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Push or Pull Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Change Motion Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 3 Motion 			15 min		
Exploration 4 Speed 			15 min		
Exploration 5 Direction 			15 min		
Elaborate FUNomenal Story— Mia and Maya			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	

 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Lesson 2 Change the Way Things Move	150 min (5, ½ hour segments)	150 min (5, ½ hour segments)	270 min (9, ½ hour segments)	180 min (6, ½ hour segments)	
Engage Can You Explain It?  	30 min	30 min	30 min	30 min	
Exploration 1 Roll a Ball Hands-On Activity  	30 min	30 min	30 min	30 min	
Exploration 2 Engineer It—Design a Track Hands-On Activity  	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	60 min (2, ½ hour segments)	
Exploration 3 Changing Speed 			15 min		
Exploration 4 Changing Direction 			15 min		
Exploration 5 Bumping 			15 min		
Elaborate FUNomenal Story— Goal!			30 min	 30 min	
Elaborate Take It Further 			45 min (1.5, ½ hour segments)		
Evaluate Can You Explain It?  	30 min	15 min	15 min	30 min	
Evaluate Lesson Check   Formative Assessment		15 min	15 min		
Unit Review   Summative Assessment		30 min	30 min		
Activity Guide Unit 5 Test 	15 min	15 min	15 min	15 min	

Summative Assessment (Assessment Guide)					
 = print resource  = digital resource	Short on Time	Core	Extended	Blended	Customize Your Own Path
FUNomenal Stories Unit 5 Test  Summative Assessment (Assessment Guide)				15 min	
Unit 5 Readiness Check  (Assessment Guide)			15 min		
End-of-Year Test (Assessment Guide) 			30 min		
Beginning-of-Year Readiness Check (Assessment Guide) 			30 min		
Performance-Based Assessment— It's the Force, Of Course! Task 1 (Assessment Guide) 			45 min (1.5, 30-min segments)		
Performance-Based Assessment— It's the Force, Of Course! Task 2 (Assessment Guide) 			30 min		
Performance-Based Assessment— It's the Force, Of Course! Part 2 (Assessment Guide) 			15 min		