The following Pacing Guide includes changes you can consider in order to streamline the learning process for each lesson within each unit. However, you are the expert on what will work in your classroom, as such, we've left room for you to customize the recommendations to best suit your needs and schedule. The lesson and class day interval suggestions provided are based on 30-minute instructional periods. The "Core" instructional pathway is based on two to three, 30-minute instructional periods per week, and the "Comprehensive" instructional pathway is based on five, 30-minute instructional periods per week.

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	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 1: Engineering and Technology			
Unit 1 Project	Optional	3 days (30	
		minutes each)	
Lesson 1: Engineer It • What Does an	5 days (30	7 days (30	
Engineer Do?	minutes each)	minutes each)	
Engage (pp. 4 - 5)	15 minutes	20 minutes	
Alternative Engage Strategy (p. 4)	10 minutes	10 minutes	
Explore/Explain: Problems and	20 minutes	25 minutes	
Solutions (pp. 6-8)			
Apply What You Know • Read, Write,	10 minutes	10 minutes	
Share! (p. 8)			
Hands-On Activity: Engineer It ●	30 minutes	40 minutes	
Problem and Solution (pp. 9-10)			
Explore/Explain: Engineers (pp. 11-12)	15 minutes	25 minutes	

Apply What You Know • Evidence	10 minutes	15 minutes	
Notebook (p. 12) Elaborate: Take It Further (pp. 13-14)	Optional	25 minutes	
Elaborate: Take It Further • Do the Math! (p. 13)	10 minutes	10 minutes	
Evaluate: Lesson Check (pp. 15-17)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can We	5 days (30	7 days (30	
Use a Design Process?	minutes each)	minutes each)	
Engage (pp. 18-19)	15 minutes	15 minutes	
Alternate Engage Strategy (p. 18)	Optional	10 minutes	
Explore/Explain: A Design Process Step 1 and Step 2 (p. 20)	15 minutes	20 minutes	
Do the Math! (p. 21)	5 minutes	5 minutes	
Apply What You Know • Evidence Notebook (p. 21)	10 minutes	10 minutes	
Explore/Explain: A Design Process Step 3 and Step 4 (pp. 22-23)	15 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 23)	10 minutes	10 minutes	
Explore/Explain: A Design Process Step 5 (p. 24)	10 minutes	20 minutes	
Apply What You Know ● Read, Write, Share! (p. 24)	10 minutes	10 minutes	
Hands-On Activity: Engineer It • A Design Process (pp. 25-26)	30 minutes	40 minutes	
Elaborate: Take It Further (p. 27)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 29-31)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30	
		minutes)	
Unit 1 Performance Task (pp. 32-33)	Optional	2 days (30	
	-	minutes each)	
Unit 1 Review (pp. 34-36)	1 day (30	1 day (30	
Huit 1 Test (Assessment Colida)	minutes)	minutes)	
Unit 1 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment	Optional	2 days (30	
(Assessment Guide)	Optional	minutes each)	
Total Days for Unit 1:	12	24	
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		Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
l	Unit 2: Forces and Motion			
J	Jnit 2 Project	Optional	3 days (30 minutes each)	
ı	esson 1: Engineer It • What Is Motion?	5 days (30 minutes each)	7 days (30 minutes each)	
	Engage (pp. 40-41)	15 minutes	15 minutes	
	Alternative Engage Strategy (p. 40)	Optional	10 minutes	
	Explore/Explain: Motion (pp. 42-43)	20 minutes	20 minutes	
	Apply What You Know • Evidence Notebook (p. 43)	10 minutes	10 minutes	
	Explore/Explain: Speed (pp. 44)	10 minutes	10 minutes	
	Apply What You Know (p. 44)	10 minutes	10 minutes	
	Hands-On Activity: Engineer It ● Make a Ramp (pp. 45-46)	30 minutes	30 minutes	
	Explore/Explain: Direction (pp. 47-48)	15 minutes	20 minutes	
	Apply What You Know (p. 48)	10 minutes	15 minutes	
	Elaborate: Take It Further • Read, Write, Share! (p. 49)	Optional	25 minutes	
	Elaborate: Take It Further • Do the Math! (p. 50)	Optional	15 minutes	
	Evaluate: Lesson Check (pp. 87-89)	30 minutes	30 minutes	
	Lesson 2: Engineer It • How Can We Change the Way Things Move?	5 days (30 minutes each)	7 days (30 minutes each)	
	Engage (pp. 54-55)	10 minutes	15 minutes	
	Alternate Engage Strategy (p. 54)	10 minutes	10 minutes	
	Explore/Explain: Changing Speed (p. 56)	10 minutes	20 minutes	
	Apply What You Know (p. 56)	10 minutes	10 minutes	
	Explore/Explain: Changing Direction (p. 57)	10 minutes	20 minutes	
	Apply What You Know ● Evidence Notebook (p. 57)	10 minutes	10 minutes	
	Explore/Explain: Bumping (p. 58)	10 minutes	10 minutes	
	Apply What You Know • Do the Math! (p. 58)	10 minutes	10 minutes	

Hands-On Activity: Engineer It ●	30 minutes	40 minutes
Pushing Objects (pp. 59-60)		
Elaborate: Take It Further (pp. 61-62)	10 minutes	15 minutes
Elaborate: Take It Further • Read,	Optional	20 minutes
Write, Share! (p. 62)		
Evaluate: Lesson Check (pp. 63-65)	30 minutes	30 minutes
You Solve It	Optional	1 day (30
		minutes each)
Unit 2 Performance Task (pp. 66-67)	Optional	2 days (30
		minutes each)
Unit 2 Review (pp. 68-70)	1 day (30	1 day (30
	minutes)	minutes)
Unit 2 Test (Assessment Guide)	1 day (30	1 day (30
	minutes)	minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 2:	12	24

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 3: Plants and Animals			
Unit 3 Project	Optional	3 days (30 minutes each)	
Lesson 1: What Do Plants Need?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 74-75)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 74)	5 minutes	5 minutes	
Explore/Explain: Living and Nonliving Things (pp. 76-77)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 77)	10 minutes	10 minutes	
Explore/Explain: Sunlight, Water and Soil (p. 78)	10 minutes	10 minutes	
Hands-On Activity: What Plants Need	20 minutes one	20 minutes one	
(pp. 79-80)	day; 20	day; 20	
	minutes one	minutes one	
	day two weeks	day two weeks	
	later	later	

Do the Math! (p. 81)	5 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 81)	10 minutes	10 minutes	
Explore/Explain: Air and Space to Grow (p. 82-84)	15 minutes	20 minutes	
Apply What You Know ● Read, Write, Share! (p. 84)	Optional	30 minutes	
Elaborate: Take It Further (pp. 85-86)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 87-89)	30 minutes	30 minutes	
Lesson 2: What do Animals Need?	5 days (30	7 days (30	
	minutes each)	minutes each)	
Engage (pp. 90-91)	10 minutes	10 minutes	
Alternate Engage Strategy (p. 90)	Optional	5 minutes	
Explore/Explain: What People Need (pp. 92–93)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 93)	Optional	10 minutes	
Explore/Explain: What Animals Need (pp. 94, 97)	10 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 97)	5 minutes	10 minutes	
Hands-On Activity: Pill Bug Home (pp. 95-96)	30 minutes	30 minutes	
Explore/Explain: Water and Air for Animals (pp. 98-99)	20 minutes	20 minutes	
Do the Math! (p. 98)	5 minutes	5 minutes	
Apply What You Know • Evidence Notebook (p. 99)	5 minutes	5 minutes	
Explore/Explain: Food for Animals (p. 100)	10 minutes	10 minutes	
Apply What You Know • Read, Write, Share! (p. 100)	Optional	20 minutes	
Elaborate: Take It Further (p. 101)	10 minutes	10 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 102)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 103-105)	30 minutes	30 minutes	
Lesson 3: Where Do Plants and Animals	5 days (30	7 days (30	
Live?	minutes each)	minutes each)	
Engage (pp. 106-107)	10 minutes	10 minutes	
Alternate Engage Strategy (p. 106)	5 minutes	5 minutes	
Explore/Explain: Desert (pp. 108–109)	10 minutes	10 minutes	
Apply What You Know • Read, Write, Share! (p. 109)	Optional	20 minutes	

Explore/Explain: Forests (p. 110)	10 minutes	10 minutes	
Hands-On Activity: Where Plants Live (pp. 111-112)	5 minutes the first day; 5 minutes each day for one week; 10 minutes on the last day	5 minutes the first day; 5 minutes each day for one week; 10 minutes on the last day	
Do The Math! (p. 113)	5 minutes	5 minutes	
Apply What You Know • Read, Write, Share! (p. 113)	10 minutes	10 minutes	
Explore/Explain: Ponds (pp. 114-115)	10 minutes	10 minutes	
Apply What You Know ● Read, Write, Share! (p. 115)	Optional	20 minutes	
Explore/Explain: Oceans (p. 116)	10 minutes	10 minutes	
Apply What You Know • Read, Write, Share! (p. 116)	Optional	10 minutes	
Elaborate: Take It Further (pp. 117–118)	10 minutes	20 minutes	
Evaluate: Lesson Check (pp. 119-121)	30 minutes	30 minutes	
Lesson 4: How Do Plants and Animals Change Their Environment?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 122-123)	10 minutes	10 minutes	
Alternate Engage Strategy (p. 122)	5 minutes	5 minutes	
Explore/Explain: Plant and Animal Changes (pp. 124-126)	15 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 126)	15 minutes	15 minutes	
Explore/Explain: Changes All Around (pp. 127-128)	10 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 128)	10 minutes	10 minutes	
Explore/Explain: Changes to the Environment (pp. 129-130)	15 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 130)	Optional	10 minutes	
Hands-On Activity: Engineer It ● Plan a Park (pp. 131-132)	30 minutes	30 minutes	

Elaborate: Take It Further • Do the Math! (p. 133)	10 minutes	15 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 134)	Optional	25 minutes	
Evaluate: Lesson Check (pp. 135-137)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 3 Performance Task (pp. 138-139)	Optional	2 days (30 minutes each)	
Unit 3 Review (pp. 140-142)	1 day (30 minutes)	1 day (30 minutes)	
Unit 3 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment (Assessment Guide)	Optional	2 days (30 minutes each)	
Total Days for Unit 3:	22	38	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 4: Sun Warms Earth			
Unit 4 Project	Optional	3 days (30 minutes each)	
Lesson 1: How Does the Sun Warm Earth?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 146-147)	15 minutes	20 minutes	
Alternative Engage Strategy (p. 146)	5 minutes	10 minutes	
Explore/Explain: The Sun's Light (pp. 148-149)	20 minutes	25 minutes	
Apply What You Know • Do the Math! (p. 149)	10 minutes	15 minutes	
Explore/Explain: The Sun's Heat (p. 150)	10 minutes	25 minutes	
Apply What You Know • Read, Write, Share! (p. 150)	10 minutes	25 minutes	
Hands-On Activity: The Sun's Heat (pp. 151-152)	5 minutes; then wait 1 hour; then 25 minutes	5 minutes; then wait 1 hour; then 25 minutes	

Elaborate: Take It Further (pp. 153-154)	20 minutes	30 minutes	
Evaluate: Lesson Check (pp. 87-89)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can I Protect Myself from the Sun?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 158-159)	10 minutes	15 minutes	
Alternate Engage Strategy (p. 158)	10 minutes	15 minutes	
Explore/Explain: Heat, Light and Shade (p. 160)	15 minutes	20 minutes	
Do the Math! (p. 161)	5 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 161)	10 minutes	15 minutes	
Explore/Explain: Engineers at Work (pp. 162)	15 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 162)	10 minutes	15 minutes	
Hands-On Activity: Engineer It • Design Shade (pp. 162-163)	30 minutes	30 minutes	
Elaborate: Take It Further (p. 165)	15 minutes	15 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 166)	Optional	25 minutes	
Evaluate: Lesson Check (pp. 167-169)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 4 Performance Task (pp. 170-171)	Optional	2 days (30 minutes each)	
Unit 4 Review (pp. 172-174)	1 day (30 minutes)	1 day (30 minutes)	
Unit 4 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment	Optional	2 days (30	
(Assessment Guide)	_	minutes each)	
Total Days For Unit 4:	12	24	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 5: Weather			
Unit 5 Project	Optional	3 days (30 minutes each)	
Lesson 1: How Can We Observe Weather	5 days (30	7 days (30	
Patterns?	minutes each)	minutes each)	
Engage (pp. 178-179)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 178)	5 minutes	5 minutes	
Explore/Explain: Different Kinds of Weather (p. 180)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 180)	Optional	10 minutes	
Explore/Explain: Weather Patterns (pp. 181-182)	20 minutes	20 minutes	
Apply What You Know • Do the Math! (p. 182)	Optional	5 minutes	
Hands-On Activity: Observing Weather Patterns (pp. 183-184)	5 minutes each day for a week; 15 minutes to complete step 3	5 minutes each day for a week; 15 minutes to complete step 3	
Do the Math! (p. 185)	10 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 185)	Optional	10 minutes	
Explore/Explain: The Seasons (pp. 186- 188)	20 minutes	20 minutes	
Apply What You Know (p. 188)	Optional	5 minutes	
Elaborate: Take It Further (p. 189)	Optional	20 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 190)	Optional	10 minutes	
Evaluate: Lesson Check (pp. 191-193)	30 minutes	30 minutes	
Lesson 2: How Can We Measure Weather?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 195-196)	10 minutes	15 minutes	
Alternate Engage Strategy (p. 195)	5 minutes	10 minutes	
Explore/Explain: Weather Tools (pp. 196-197)	15 minutes	20 minutes	

Apply What You Know • Evidence Notebook (p. 197)	10 minutes	15 minutes	
Explore/Explain: Using Weather Tools (pp. 198-200)	15 minutes	20 minutes	
Apply What You Know • Do the Math! (p. 200)	10 minutes	15 minutes	
Hands-On Activity: Measuring Weather	5 minutes each	5 minutes each	
with Tools (pp. 201-202)	day for a week;	day for a week;	
	15 minutes to	20 minutes to	
	complete step 3	complete step 3	
Elaborate: Take It Further (p. 203)	15 minutes	20 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 204)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 205-207)	30 minutes	30 minutes	
Lesson 3: Engineer It • What Are Kinds of	5 days (30	7 days (30	
Severe Weather?	minutes each)	minutes each)	
Engage (pp. 208-209)	10 minutes	10 minutes	
Alternate Engage Strategy (p. 208)	5 minutes	5 minutes	
Explore/Explain: Thunderstorms (p. 210)	15 minutes	20 minutes	
Hands-On Activity: Engineer It • Model Thunder (pp. 211-212)	15 minutes	20 minutes	
Apply What You Know • Do the Math! (p. 213)	10 minutes	10 minutes	
Explore/Explain: Winter Storms (pp. 214-215)	15 minutes	20 minutes	
Apply What You Know • Read, Write, Share! (p. 215)	10 minutes	10 minutes	
Explore/Explain: Tornados (p. 216)	15 minutes	20 minutes	
Apply What You Know • Read, Write, Share! (p. 216)	10 minutes	10 minutes	
Explore/Explain: Hurricanes (pp. 217-218)	15 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 218)	Optional	10 minutes	
Elaborate: Take It Further (pp. 219- 220)	Optional	25 minutes	
Evaluate: Lesson Check (pp. 119-121)	30 minutes	30 minutes	
Lesson 4: Engineer It • How Can	5 days (30	7 days (30	
Forecasts Help Us?	minutes each)	minutes each)	
Engage (pp. 224-225)	15 minutes	20 minutes	

Alternate Engage Strategy (p. 224)	5 minutes	10 minutes	
Explore/Explain: Weather Forecast (p. 226)	10 minutes	15 minutes	
Do the Math! (p. 227)	5 minutes	10 minutes	
Apply What You Know ● Read, Write, Share! (p. 227)	10 minutes	15 minutes	
Explore/Explain: Prepare for Weather (pp. 228-230)	15 minutes	25 minutes	
Apply What You Know ● Evidence Notebook (p. 230)	10 minutes	15 minutes	
Hands-On Activity: Plan a Severe Weather Saftey Kit (pp. 231-232)	30 minutes	40 minutes	
Elaborate: Take It Further (pp. 233-234)	20 minutes	30 minutes	
Evaluate: Lesson Check (pp. 135-137)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 5 Performance Task (pp. 238-239)	Optional	2 days (30 minutes each)	
Unit 5 Review (pp. 240-242)	1 day (30 minutes)	1 day (30 minutes)	
Unit 5 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment	Optional	2 days (30	
(Assessment Guide)		minutes each)	
Total Days for Unit 5:	22	38	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 6: Earth's Resources			
Unit 6 Project	Optional	3 days (30 minutes each)	
Lesson 1: What Are Natural Resources?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 146-147)	10 minutes	10 minutes	

Alternative Engage Strategy (p. 146)	Optional	10 minutes	
Explore/Explain: Air (pp. 248-249)	15 minutes	15 minutes	
Apply What You Know • Do the Math! (p. 149)	10 minutes	10 minutes	
Explore/Explain: Water (pp. 250-251)	15 minutes	15 minutes	
Apply What You Know ● Evidence Notebook (p. 251)	10 minutes	10 minutes	
Explore/Explain: Rock (pp. 252-253)	15 minutes	15 minutes	
Apply What You Know • Read, Write, Share! (p. 253)	Optional	10 minutes	
Explore/Explain: Soil (p. 254)	15 minutes	15 minutes	
Apply What You Know (p. 254)	Optional	10 minutes	
Hands-On Activity: Clay Bricks (pp.	10 minutes;	10 minutes;	
255-256)	then wait 1	then wait 1	
	hour; then 10 minutes	hour; then 20 minutes	
Elaborate: Take It Further (p. 257)	10 minutes	15 minutes	
Elaborate: Take It Further • Read,	Optional	15 minutes	
Write, Share! (p. 258)			
Evaluate: Lesson Check (pp. 259-261)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can We Save Natural Resources?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 262-263)	10 minutes	10 minutes	
Alternate Engage Strategy (p. 262)	Optional	10 minutes	
Explore/Explain: Harming Natural	15 minutes	20 minutes	
Resources (pp. 264-265)			
Apply What You Know (p. 265)	10 minutes	10 minutes	
Explore/Explain: Reduce (pp. 266-267)	15 minutes	20 minutes	
Apply What You Know • Read, Write, Share! (p. 267)	Optional	10 minutes	
Explore/Explain: Reuse and Recycle (p. 268)	10 minutes	15 minutes	
Apply What You Know • Read, Write, Share! (p. 268)	10 minutes	10 minutes	
Hands-On Activity: Engineer It • Where	10 minutes for	10 minutes for	
Does Our Trash Go? (pp. 269-270)	step 1; Step 2: 2	step 1; Step 2: 5	
	minutes each	minutes each	
	day for two	day for two	
	weeks; 20 minutes for	weeks; 20 minutes for	
	steps 3 and 4	steps 3 and 4	
Elaborate: Take It Further (pp. 271-272)	Optional	25 minutes	

Evaluate: Lesson Check (pp. 273-275)	30 minutes	30 minutes
You Solve It	Optional	1 day (30
		minutes)
Unit 6 Performance Task (pp. 276-277)	Optional	2 days (30
		minutes each)
Unit 6 Review (pp. 278-280)	1 day (30	1 day (30
	minutes)	minutes)
Unit 6 Test (Assessment Guide)	1 day (30	1 day (30
	minutes)	minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 6:	12	24

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	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 1: Engineering and Technology			
Unit 1 Project	Optional	3 days (30 minutes each)	
Lesson 1: Engineer It • How Do Engineers	5 days (30	7 days (30	
Use Technology?	minutes each)	minutes each)	
Engage (pp. 4 - 5)	15 minutes	15 minutes	
Alternative Engage Strategy (p. 4)	Optional	15 minutes	
Explore/Explain: What Is an Engineer? (pp. 6-8)	20 minutes	25 minutes	
Apply What You Know • Evidence Notebook (p. 8)	10 minutes	15 minutes	
Explore/Explain: What Is Technology? (p. 9)	10 minutes	15 minutes	
Do the Math! (p.10)	5 minutes	10 minutes	
Apply What You Know• Read, Write, Share! • Evidence Notebook (p. 10)	10 minutes	15 minutes	

Hands-On Activity: Engineer It • Solve	30 minutes	40 minutes
the Problem (pp. 11-12)		
Elaborate: Take It Further (pp. 13-14)	20 minutes	30 minutes
Evaluate: Lesson Check (pp. 15-17)	30 minutes	30 minutes
Lesson 2: Engineer It • How We Solve a Problem?	5 days (30 minutes each)	7 days (30 minutes each)
Engage (pp. 18-19)	15 minutes	15 minutes
Alternate Engage Strategy (p. 18)	Optional	5 minutes
Explore/Explain: Step 1 – Define a Problem (pp. 20-21)	15 minutes	15 minutes
Apply What You Know (p. 21)	Optional	5 minutes
Explore/Explain: Step 2 – Plan and Build (p. 22)	15 minutes	15 minutes
Apply What You Know (p. 22)	Optional	5 minutes
Explore/Explain: Step 3 – Test and Improve (p. 23)	15 minutes	15 minutes
Apply What You Know ● Evidence Notebook (p. 23)	Optional	5 minutes
Explore/Explain: Step 4 – Redesign (p. 24)	15 minutes	15 minutes
Apply What You Know ● Evidence Notebook (p. 24)	Optional	5 minutes
Explore/Explain: Step 5 – Communicate (p. 25)	15 minutes	15 minutes
Do the Math! (p. 26)	Optional	5 minutes
Apply What You Know (p. 26)	Optional	5 minutes
Hands-On Activity: Engineer It • Protect the Legs! (pp. 27-28)	30 minutes	30 minutes
Elaborate: Take It Further (p. 27)	Optional	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 27)	Optional	15 minutes
Evaluate: Lesson Check (pp. 31-33)	30 minutes	30 minutes
You Solve It	Optional	1 day (30 minutes)
Unit 1: Performance Task (pp. 34-35)	Optional	2 days (30 minutes each)
Unit 1 Review (pp. 36-38)	1 day (30 minutes)	1 day (30 minutes)
Unit 1 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)
Performance-Based Assessment (Assessment Guide)	Optional	2 days (30 minutes each)
Total Days for Unit 1:	12	24

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 2: Sound	Optional	3 days (30	
Unit 2 Project	Ориона	minutes each)	
Lesson 1: What is Sound?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 42-43)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 40)	Optional	10 minutes	
Explore/Explain: Make a Sound (pp. 44-45)	10 minutes	20 minutes	
Apply What You Know (p. 45)	10 minutes	10 minutes	
Explore/Explain: Volume and Pitch (pp. 46-48)	30 minutes	30 minutes	
Do the Math! (p. 49)	Optional	5 minutes	
Apply What You Know (p. 49)	10 minutes	10 minutes	
Explore/Explain: What Makes It Move? (p. 50)	10 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 50)	10 minutes	10 minutes	
Hands-On Activity: Make Something Move with Sound (pp. 51-52)	30 minutes	30 minutes	
Elaborate: Take It Further (pp. 53-54)	Optional	30 minutes	
Evaluate: Lesson Check (pp. 55-57)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can We Communicate with Sound?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 58-59)	10 minutes	15 minutes	
Alternate Engage Strategy (p. 58)	Optional	10 minutes	
Explore/Explain: Communicate with Sound (pp. 60-61)	15 minutes	15 minutes	
Apply What You Know (p. 61)	10 minutes	10 minutes	
Explore/Explain: Communicate over Distances (pp. 62, 65)	15 minutes	15 minutes	
Hands-On Activity: Engineer It ● Communicate over Distances (pp. 63-64)	30 minutes	40 minutes	

Apply What You Know • Do the Math! (p. 65)	10 minutes	10 minutes	
Explore/Explain: Send a Message (pp. 66-67)	10 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 68)	10 minutes	10 minutes	
Elaborate: Take It Further (p. 69)	10 minutes	15 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 70)	Optional	25 minutes	
Evaluate: Lesson Check (pp. 71-73)	30 minutes	30 minutes	
v 6 l u	0.11	4 -1 - /20	
You Solve It	Optional	1 day (30 minutes)	
Unit 2 Performance Task (pp. 74-75)	Optional		
	-	minutes) 2 days (30	
Unit 2 Performance Task (pp. 74-75)	Optional 1 day (30	minutes) 2 days (30 minutes each) 1 day (30	
Unit 2 Performance Task (pp. 74-75) Unit 2 Review (pp. 76-78)	Optional 1 day (30 minutes) 1 day (30	minutes) 2 days (30 minutes each) 1 day (30 minutes) 1 day (30	

	Core (2–3 days/ week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 3: Light			
Unit 3 Project	Optional	3 days (30 minutes each)	
Lesson 1: How Does Light Help Us See?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 82-83)	10 minutes	15 minutes	
Alternative Engage Strategy (p. 82)	Optional	10 minutes	
Explore/Explain: Let There Be Light! (pp. 84-85, 86)	15 minutes	20 minutes	
Do the Math! (p. 85)	Optional	10 minutes	
Apply What You Know • Read, Write, Share! (p. 86)	10 minutes	15 minutes	
Hands-On Activity: Make Observations in Different Light (pp. 87-88)	30 minutes	40 minutes	

Explore/Explain: See in the Dark (p. 89-92)	25 minutes	30 minutes
Apply What You Know • Evidence Notebook (p. 92)	10 minutes	10 minutes
Elaborate: Take It Further (pp. 93-94)	20 minutes	30 minutes
Evaluate: Lesson Check (pp. 95-97)	30 minutes	30 minutes
Lesson 2: How Do Materials Block Light?	5 days (30	7days (30
	minutes each)	minutes each)
Engage (pp. 98-99)	10 minutes	15 minutes
Alternate Engage Strategy (p. 98)	10 minutes	10 minutes
Explore/Explain: How Much Light? (pp. 100, 103)	15 minutes	20 minutes
Hands-On Activity: Test How Light Passes Through Materials (pp. 101- 102)	30 minutes	40 minutes
Apply What You Know • Do the Math! (p. 103)	10 minutes	10 minutes
Explore/Explain: Shadows (pp. 104- 106)	20 minutes	25 minutes
Apply What You Know • Evidence Notebook (p. 106)	10 minutes	15 minutes
Elaborate: Take It Further (p. 107)	15 minutes	20 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 108)	Optional	25 minutes
Evaluate: Lesson Check (pp. 109-111)	30 minutes	30 minutes
Lesson 3: How Does Light Travel?	5 days (30 minutes each)	7 days (30 minutes each)
Engage (pp. 112-113)	10 minutes	10 minutes
Alternate Engage Strategy (p. 112)	Optional	5 minutes
Explore/Explain: Straight On (pp. 114–117)	30 minutes	30 minutes
Apply What You Know • Evidence Notebook (p. 117)	Optional	10 minutes
Explore/Explain: A New Direction (pp.118-120)	20 minutes	20 minutes
Hands-On Activity: Test What Happens (pp. 121-122)	30 minutes	30 minutes
Do The Math! (p. 123)	Optional	5 minutes
Apply What You Know • Evidence Notebook (p. 123)	Optional	10 minutes
Explore/Explain: Communicate Through Light (pp. 124-126)	10 minutes	10 minutes
Apply What You Know (p. 126)	Optional	20 minutes

Elaborate: Take It Further (p. 127)	10 minutes	10 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 128)	10 minutes	20 minutes	
Evaluate: Lesson Check (pp. 129-131)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 3 Performance Task (pp. 132-133)	Optional	2 days (30 minutes each)	
Unit 3 Review (pp. 134-136)	1 day (30 minutes)	1 day (30 minutes)	
Unit 3 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment	Optional	2 days (30	
(Assessment Guide)		minutes each)	
Total Days for Unit 3:	17	31	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 4: Plant and Animal Structures	T		
Unit 4 Project	Optional	3 days (30 minutes each)	
Lesson 1: Engineer It • What Parts Help	5 days (30	7 days (30	
Plants Live?	minutes each)	minutes each)	
Engage (pp. 140-141)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 140)	Optional	5 minutes	
Explore/Explain: Plant Parts (p. 142)	10 minutes	10 minutes	
Do the Math! (p. 143)	Optional	10 minutes	
Apply What You Know • Evidence Notebook (p. 143)	Optional	10 minutes	
Explore/Explain: Shape Up (pp. 144- 145)	10 minutes	10 minutes	
Apply What You Know • Evidence	10 minutes one	10 minutes one	
Notebook (p. 145)	day; 10 minutes	day; 10 minutes	
	one day 2	one day 2	
	weeks after the	weeks after the	
	first day	first day	

Explore/Explain: Looking to Nature (pp. 146-148)	20 minutes	20 minutes
Apply What You Know • Read, Write, Share! • Evidence Notebook (p. 148)	Optional	10 minutes
Explore/Explain: Plants Give Ideas (p. 149)	10 minutes	10 minutes
Apply What You Know (p. 150)	10 minutes	10 minutes
Hands-On Activity: Engineer It • Use Ideas from Plants (pp. 151-152)	30 minutes	30 minutes
Elaborate: Take It Further (p. 153)	Optional	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 154)	Optional	15 minutes
Evaluate: Lesson Check (pp. 155-157)	30 minutes	30 minutes
Lesson 2: Engineer It • What Body	5 days (30	7 days (30
Parts Help Animals Stay Safe?	minutes each)	minutes each)
Engage (pp. 158-159)	10 minutes	10 minutes
Alternate Engage Strategy (p. 158)	Optional	10 minutes
Explore/Explain: Moving Away from Danger (pp. 160-161)	10 minutes	15 minutes
Apply What You Know • Read, Write,	10 minutes	10 minutes
Share! • Evidence Notebook (p. 161)		
Explore/Explain: Hiding From Danger (pp. 162-163)	10 minutes	15 minutes
Apply What You Know (p. 163)	10 minutes	10 minutes
Explore/Explain: Facing Danger (p. 164)	10 minutes	10 minutes
Apply What You Know ● Evidence Notebook (p. 164)	10 minutes	10 minutes
Explore/Explain: Staying Safe in Weather (pp. 165-166)	10 minutes	10 minutes
Apply What You Know • Evidence Notebook (p. 166)	Optional	10 minutes
Explore/Explain: Animals as Models (pp. 167-168)	10 minutes	10 minutes
Apply What You Know • Do the Math! (p. 168)	Optional	10 minutes
Hands-On Activity: Engineer It • Design a Shoe (pp. 169-170)	30 minutes	30 minutes
Elaborate: Take It Further (pp.171-172)	Optional	20 minutes
Evaluate: Lesson Check (pp. 173-175)	30 minutes	30 minutes
Lesson 3: Engineer It • What Body	5 days (30	7 days (30
Parts Help Animals Meet Their Needs?	minutes each)	minutes each)
Engage (pp. 176-177)	5 minutes	10 minutes
Alternate Engage Strategy (p. 176)	Optional	5 minutes

Explore/Explain: Parts to Find Food (pp. 178-180) Apply What You Know • Evidence Notebook (p. 180) Explore/Explain: Parts to Eat Food (pp. 10 minutes 15 minutes 10 minutes 10 minutes (p. 182) Explore/Explain: Parts to Breathe (pp. 15 minutes 20 minutes 183-185)	
Notebook (p. 180) Explore/Explain: Parts to Eat Food (pp. 10 minutes 15 minutes 181-182) Apply What You Know • Do the Math! 10 minutes (p. 182) Explore/Explain: Parts to Breathe (pp. 15 minutes 20 minutes	
181-182) Apply What You Know • Do the Math! 10 minutes 10 minutes (p. 182) Explore/Explain: Parts to Breathe (pp. 15 minutes 20 minutes	
(p. 182) Explore/Explain: Parts to Breathe (pp. 15 minutes 20 minutes	
Explore/Explain: Parts to Breathe (pp. 15 minutes 20 minutes	
'	
Apply What You Know • Read, Write, Share! (p. 185)	
Explore/Explain: Animals as Models 15 minutes 20 minutes (pp. 186-188)	
Apply What You Know • Evidence Optional 10 minutes Notebook (p. 188)	
Hands-On Activity: Engineer It • Use 30 minutes 30 minutes Ideas from Animals (pp. 189-190)	
Elaborate: Take It Further (pp. 191- 192) Optional 20 minutes	
Evaluate: Lesson Check (pp. 193-195) 30 minutes 30 minutes	
Lesson 4: How Do Plants and Animals 6 days (30 8 days (30 Respond to Their Environment? minutes each)	
Respond to Their Environment? minutes each) minutes each) Engage (pp. 196-197) 10 minutes 10 minutes	
Alternate Engage Strategy (p. 196) Optional 5 minutes	
Explore/Explain: Plant Places (p. 198) 10 minutes 10 minutes	
Apply What You Know • Do the Math! Optional 10 minutes	
(p. 198)	
Hands-On Activity: Change How a Plant Grows (pp. 199-200) 1; 5 minutes day 1; 5 minutes each day for 2 weeks; 15 minutes the last day 15 minutes day 1; 5 minutes day 1; 5 minutes each day for 2 weeks; 15 minutes the last day	
Explore/Explain: Plants and Seasons 10 minutes 10 minutes (pp. 201)	
Apply What You Know • Evidence 5 minutes 5 minutes	
Explore/Explain: Animals Use Senses (pp. 202-203) 10 minutes 10 minutes	
Apply What You Know • Evidence Optional 5 minutes	
Notebook (p. 203)	

Apply What You Know • Read, Write, Share! (p. 205)	Optional	10 minutes	
Explore/Explain: Animals and Season (p. 206)	10 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 206)	Optional	10 minutes	
Elaborate: Take It Further (pp. 207-208)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 209-211)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 4 Performance Task (pp. 212-213)	Optional	2 days (30 minutes each)	
Unit 4 Review (pp. 214-216)	1 day (30 minutes)	1 day (30 minutes)	
Unit 4 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment (Assessment Guide)	Optional	2 days (30 minutes each)	
Total Days for Unit 4:	23	39	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 5: Living Things and Their Young	g		
Unit 5 Project	Optional	3 days (30 minutes each)	
Lesson 1: How Do Plants Look Like Their	5 days (30	7 days (30	
Parents?	minutes each)	minutes each)	
Engage (pp. 220-221)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 220)	Optional	10 minutes	
Explore/Explain: Young and Old (pp. 222-223)	10 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 223)	10 minutes	10 minutes	
Explore/Explain: Compare Parts (pp. 224-225)	10 minutes	15 minutes	
Apply What You Know ● Read, Write, Share! (p. 225)	10 minutes	15 minutes	

Explore/Explain: Compare Adult Plants (pp. 226-227)	10 minutes	15 minutes
Apply What You Know • Evidence Notebook (p. 227)	10 minutes	10 minutes
Do the Math! (p. 228)	Optional	10 minutes
Hands-On Activity: Grow Carrot Tops (pp. 229-230)	5 minutes each day for 10 days	5 minutes each day for 10 days
Elaborate: Take It Further (pp. 231- 232)	Optional	20 minutes
Evaluate: Lesson Check (pp. 233-235)	30 minutes	30 minutes
Lesson 2: How Do Animals Look Like	5 days (30	7 days (30
Their Parents?	minutes each)	minutes each)
Engage (pp. 236-237)	10 minutes	10 minutes
Alternate Engage Strategy (p. 236)	Optional	10 minutes
Explore/Explain: Animals Grow (pp. 238-239)	10 minutes	10 minutes
Apply What You Know • Evidence Notebook (p. 239)	5 minutes	10 minutes
Explore/Explain: Compare Parts (pp. 240, 243)	10 minutes	10 minutes
Hands-On Activity: Observe Brine	10 minutes	10 minutes
Shrimp(pp. 201-202)	every other day	every other day
	for 2 weeks	for 2 weeks
Apply What You Know • Evidence Notebook (p. 243)	Optional	10 minutes
Explore/Explain: Compare Body Coverings (pp. 244-245)	10 minutes	10 minutes
Apply What You Know • Read, Write, Share! (p. 245)	Optional	15 minutes
Explore/Explain: Animals of the Same Kind (pp. 246-248)	15 minutes	15 minutes
Apply What You Know • Evidence Notebook (p. 248)	Optional	10 minutes
Elaborate: Take It Further (p. 249)	10 minutes	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 250)	Optional	10 minutes
Evaluate: Lesson Check (pp. 251-253)	30 minutes	30 minutes
Lesson 3: How do Animals Take Care of	4 days (30	6 days (30
Their Young?	minutes each)	minutes each)
Engage (pp. 254-255)	10 minutes	10 minutes
Alternate Engage Strategy (p. 254)	Optional	10 minutes
Explore/Explain: Staying Safe (pp. 256-257)	10 minutes	10 minutes
Do the Math! (p. 258)	Optional	10 minutes

Apply What You Know • Evidence Notebook (p. 258)	10 minutes	10 minutes	
Explore/Explain: Finding Food (pp. 259 260)	- 10 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 260)	Optional	10 minutes	
Explore/Explain: Young Animals Learn (pp. 261-262)	10 minutes	10 minutes	
Apply What You Know • Read, Write, Share! (p. 262)	10 minutes	10 minutes	
Hands-On Activity: Compare How Animals Learn (pp. 263-264)	30 minutes	30 minutes	
Elaborate: Take It Further (pp. 265- 266)	Optional	20 minutes	
Elaborate: Take It Further • Do the Math! (p. 266)	Optional	10 minutes	
Evaluate: Lesson Check (pp. 267-269)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 5 Performance Task (pp. 270-271)	Optional	2 days (30 minutes each)	
Unit 5 Review (pp. 272-274)	1 day (30 minutes)	1 day (30 minutes)	
Unit 5 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment	Optional	2 days (30	
(Assessment Guide)		minutes each)	
Total Days for Unit 5	5: 16	30	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 6: Objects and Patterns in the S	ky		
Unit 6 Project	Optional	3 days (30 minutes each)	
Lesson 1: How Do Objects in the Sky	5 days (30	7 days (30	
Seem to Change?	minutes each)	minutes each)	
Engage (pp. 278-279)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 279)	Optional	5 minutes	

Explore/Explain: Daytime Sky (p. 280)	15 minutes	15 minutes
Apply What You Know • Evidence Notebook (p. 280)	10 minutes	10 minutes
Explore/Explain: Patterns in the Daytime Sky (pp. 281-282)	20 minutes	20 minutes
Hands-On Activity: Observe the Pattern of the Sun (pp. 283-284)	10 minutes for each	10 minutes for each
	observation over 2 days	observation over 2 days
Read, Write, Share! (p. 285)	10 minutes	10 minutes
Apply What You Know (p. 285)	Optional	10 minutes
Explore/Explain: The Nighttime Sky (pp. 286-287)	15 minutes	15 minutes
Apply What You Know (p. 287)	Optional	10 minutes
Explore/Explain: Patterns in the Nighttime Sky (pp. 288-290)	20 minutes	20 minutes
Apply What You Know • Evidence Notebook (p. 290)	Optional	10 minutes
Elaborate: Take It Further (p. 291-292)	Optional	25 minutes
Evaluate: Lesson Check (pp. 293-295)	30 minutes	30 minutes
Lesson 2: What Are Patterns of Daylight?	5 days (30 minutes each)	7 days (30 minutes each)
Engage (pp. 296-297)	10 minutes	10 minutes
Alternate Engage Strategy (p. 297)	Optional	10 minutes
Explore/Explain: The Four Seasons (p. 298)	10 minutes	15 minutes
Apply What You Know (p. 298)	10 minutes	10 minutes
Explore/Explain: Spring and Summer (pp. 299-300)	15 minutes	15 minutes
Apply What You Know • Read, Write, Share! (p. 300)	Optional	15 minutes
Explore/Explain: Fall and Winter (pp. 301-302)	20 minutes	20 minutes
Do the Math! (p. 303)	5 minutes	5 minutes
Apply What You Know • Read, Write, Share! • Evidence Notebook (p. 303)	10 minutes	10 minutes
Explore/Explain: Patterns of Daylight (p. 304)	10 minutes	10 minutes
Apply What You Know • Evidence Notebook (p. 304)	Optional	10 minutes
Hands-On Activity: Observe Patterns of Sunset (pp. 305-306)	30 minutes	30 minutes
Elaborate: Take It Further (pp. 307- 308)	Optional	20 minutes

Evaluate: Lesson Check (pp. 309-311)	30 minutes	30 minutes
You Solve It	Optional	1 day (30 minutes)
Unit 6 Performance Task (pp. 312-313)	Optional	2 days (30 minutes each)
Unit 6 Review (pp. 314-316)	1 day (30 minutes)	1 day (30 minutes)
Unit 6 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 6:	12	24

The following Pacing Guide includes changes you can consider in order to streamline the learning process for each lesson within each unit. However, you are the expert on what will work in your classroom, as such, we've left room for you to customize the recommendations to best suit your needs and schedule. The lesson and class day interval suggestions provided are based on 30-minute instructional periods. The "Core" instructional pathway is based on two to three, 30-minute instructional periods per week, and the "Comprehensive" instructional pathway is based on five, 30-minute instructional periods per week.

The curriculum designers have provided helpful tips of what assignments are best suited for the core and comprehensive pathways, and as such you may assign these particular pieces to assist with adhering to the science schedule in your classroom. Other alterations to the schedule may be made, such as assigning part of the lesson components as homework. "Language SmArts" and "Evidence Notebook" prompts, as well as the "Do the Math" activities, may be assigned for independent work that is completed outside of the Science classroom period. The many options you are able to choose from when planning are solely up to your discretion.

This tool may be used by those working solely with the Online Interactive Edition, those working solely with the printed edition, and those who use a hybrid approach, using pieces of both. The titles shown are referenced in both print and online editions, and the provided numbers in parentheses correspond to the pages of the print student edition.

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 1: Engineering and Technology			
Unit 1 Project	Optional	3 days (30 minutes each)	
Lesson 1: Engineer It • What Is a Design	5 days (30	7 days (30	
Process ?	minutes each)	minutes each)	
Engage (pp. 4 - 5)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 4)	Optional	10 minutes	
Explore/Explain: What Engineers Do (p. 6)	10 minutes	15 minutes	
Explore/Explain: Step 1- Define a Problem (p. 7)	10 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 7)	10 minutes	10 minutes	
Explore/Explain: Step 2- Plan and Build (p. 8)	10 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 8)	10 minutes	10 minutes	

Hands-On Activity: Engineer It • Build a	30 minutes	30 minutes	
Better Lunch Box (pp. 9-10) Explore/Explain: Step 3 – Test and	10 minutes	10 minutes	
Improve (p. 11) Apply What You Know • Evidence	10 minutes	10 minutes	
Notebook (p. 11) Elaborate: Take It Further (p. 14)	Optional	10 minutes	
Elaborate: Take It Further • Do the	Optional	10 minutes	
Math! (p. 14)	10	10	
Elaborate: Take It Further (p. 15)	10 minutes	10 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 16)	Optional	15 minutes	
Evaluate: Lesson Check (pp. 17-19)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can We	5 days (30	7 days (30	
Compare Design Solutions?	minutes each)	minutes each)	
Engage (pp. 20-21)	15 minutes	15 minutes	
Alternate Engage Strategy (p. 20)	Optional	10 minutes	
Explore/Explain: One Problem, Many Solutions (p. 22)	15 minutes	15 minutes	
Apply What You Know (p. 21)	10 minutes	15 minutes	
Do the Math! (p. 23)	10 minutes	10 minutes	
Explore/Explain: Build and Test a Solution (p. 24)	15 minutes	15 minutes	
Apply What You Know (p. 24)	10 minutes	10 minutes	
Explore/Explain: Compare Design Solutions (p. 25)	15 minutes	15 minutes	
Apply What You Know • Read, Write, Share! • Evidence Notebook (p. 26)	Optional	20 minutes	
Hands-On Activity: Engineer It ● Compare Strengths and Weakness of Design Solutions (pp. 27-28)	30 minutes	30 minutes	
Elaborate: Take It Further (p. 29-30)	Optional	25 minutes	
Evaluate: Lesson Check (pp. 31-33)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30	
		minutes)	
Unit 1 Performance Task (pp. 34-35)	Optional	2 days (30 minutes each)	
Unit 1 Review (pp. 36-38)	1 day (30	1 day (30	
	minutes)	minutes)	
Unit 1 Test (Assessment Guide)	1 day (30	1 day (30	
Danfarmanaa Daaad Aasaas	minutes)	minutes)	
Performance-Based Assessment (Assessment Guide)	Optional	2 days (30 minutes each)	
Total Days for Unit 1:	12	24	
 TOTAL DAYS IOF OTHER 1:	12	24	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 2: Matter	Ontional	2 days (20	
Unit 2 Project	Optional	3 days (30 minutes each)	
Lesson 1: Engineer It • What Are	5 days (30	7 days (30	
Properties of Matter?	minutes each)	minutes each)	
Engage (pp. 42–43)	15 minutes	15 minutes	
Alternate Engage Strategy (p. 42)	Optional	5 minutes	
Explore/Explain: Properties of Matter (pp. 44–47)	20 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 47)	Optional	10 minutes	
Explore/Explain: States of Matter— Solids (p. 48)	10 minutes	10 minutes	
Apply What You Know • Evidence Notebook (p. 48)	Optional	5 minutes	
Explore/Explain: States of Matter— Liquids (p. 49)	10 minutes	10 minutes	
Apply What You Know (p. 49)	Optional	10 minutes	
Explore/Explain: States of Matter— Which Materials Are Best? (p. 50)	15 minutes	15 minutes	
Hands-On Activity: Engineer It • Explore Properties of Matter (pp. 51–52)	30 minutes	30 minutes	
Do the Math! (p. 53)	15 minutes	15 minutes	
Evidence Notebook (p. 53)	5 minutes	5 minutes	
Apply What You Know • Read, Write, Share! (p. 54)	Optional	10 minutes	
Elaborate: Take It Further (pp. 55–56)	Optional	20 minutes	
Evaluate: Lesson Check (pp. 57–59)	30 minutes	30 minutes	
Lesson 2: How Are Objects Put Together?	5 days (30 minutes each)	6 days (30 minutes each)	
Engage (pp. 60–61)	15 minutes	15 minutes	
Alternate Engage Strategy (p. 60)	Optional	10 minutes	

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Explore/Explain: Build It Up, Break It Down (pp. 62-63)	20 minutes	20 minutes
Apply What You Know • Evidence Notebook (p. 63)	Optional	10 minutes
Explore/Explain: What Is the Same (p. 64)	5 minute	5 minutes
Apply What You Know • Read, Write,	10 minutes	10 minutes
Share! • Evidence Notebook (p. 64)		
Hands-On Activity: Build Objects from	30 minutes	35 minutes
Smaller Pieces (pp. 65-66)		
Elaborate: Take It Further (pp. 67-68)	30 minutes	30 minutes
Elaborate: Take It Further • Do the Math! (p. 68)	10 minutes	15 minutes
Evaluate: Lesson Check (pp. 69-71)	30 minutes	30 minutes
Lesson 3: How Do Heating and Cooling	5 days (30	7 days (30
Change Matter?	minutes each)	minutes each)
Engage (pp. 72-73)	15 minutes	15 minutes
Alternate Engage Strategy (p. 72)	Optional	10 minutes
Explore/Explain: Melt It (pp. 74-75)	20 minutes	20 minutes
Apply What You Know • Evidence	Optional	5 minutes
Notebook (p. 75)		
Explore/Explain: Cook It (pp. 76-77)	20 minutes	20 minutes
Apply What You Know • Evidence Notebook (p. 77)	Optional	10 minutes
Explore/Explain: Burn It (p.78)	15 minutes	15 minutes
Apply What You Know (p. 79)	Optional	10 minutes
Explore/Explain: Cool It Down (p. 80)	10 minutes	10 minutes
Do the Math! (p. 80)	Optional	5 minutes
Apply What You Know • Evidence Notebook (p. 80)	Optional	10 minutes
Hands-On Activity: Explore Cooling (pp.	15 minutes one	15 minutes one
81-82)	day; 15 minutes	day; 15 minutes
	next day	next day
Elaborate: Take It Further (p. 83)	10 minutes	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 84)	Optional	10 minutes
Evaluate: Lesson Check (pp. 85-87)	30 minutes	30 minutes
Lesson 4: How Does Matter Change?	5 days (30	7 days (30
	minutes each)	minutes each)
Engage (pp. 88-89)	10 minutes	15 minutes
Alternate Engage Strategy (p. 88)	10 minutes	10 minutes
Explore/Explain: Reversible Changes (pp. 90-91)	20 minutes	25 minutes

Do the Math! (p. 92)	10 minutes	10 minutes	
Apply What You Know • Read, Write, Share! • Evidence Notebook (p. 92)	10 minutes	15 minutes	
Explore/Explain: Irreversible Changes (p. 93)	20 minutes	25 minutes	
Apply What You Know • Evidence Notebook (p. 94)	10 minutes	10 minutes	
Hands-On Activity: Explore Changes to Matter (pp. 95-96)	30 minutes	40 minutes	
Elaborate: Take It Further (pp. 97-98)	Optional	30 minutes	
Evaluate: Lesson Check (pp. 99-101)	30 minutes	30 minutes	
You Solve It	Optional	1 day (30 minutes)	
Unit 2 Performance Task (pp. 102–103)	Optional	2 days (30 minutes each)	
Unit 2 Review (pp. 104–106)	1 day (30 minutes)	1 day (30 minutes)	
Unit 2 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)	
Performance-Based Assessment (Assessment Guide)	Optional	2 days (30 minutes each)	
Total Days for Unit 2:	22	37	

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 3: Environments for Living Thin	gs		
Unit 3 Project	Optional	3 days (30 minutes each)	
Lesson 1: What Do Plants Need?	5 days (30 minutes each)	7 days (30 minutes each)	
Engage (pp. 110-111)	10 minutes	15 minutes	
Alternative Engage Strategy (p. 110)	10 minutes	15 minutes	
Explore/Explain: What Plants Need (pp. 112-113)	15 minutes	20 minutes	
Apply What You Know • Read, Write, Share! • Evidence Notebook (p. 113)	10 minutes	15 minutes	

Explore/Explain: Taking It In (pp. 114- 115)	10 minutes	20 minutes
Do the Math! (p. 116)	5 minutes	10 minutes
Apply What You Know • Evidence Notebook (p. 116)	10 minutes	15 minutes
Hands-On Activity: Explore What a	15 minutes the	20 minutes the
Plant Needs (pp. 117-118)	first day; 15	first day; 20
	minutes the	minutes the
Elaborate: Take It Further (pp. 119-	second day 20 minutes	second day 30 minutes
120)		
Evaluate: Lesson Check (pp. 121-123)	30 minutes	30 minutes
Lesson 2: Engineer It • How Do Plants	5 days (30	7 days (30
Depend on Animals?	minutes each) 15 minutes	minutes each) 15 minutes
Engage (pp. 124-125)		
Alternate Engage Strategy (p. 124)	Optional	10 minutes
Explore/Explain: Animals Help Spread Seeds (pp. 126-127)	20 minutes	25 minutes
Apply What You Know • Read, Write, Share! (p. 128)	10 minutes	15 minutes
Hands-On Activity: Engineer It • Plan and Build a Model Tool (pp. 129-130)	30 minutes	40 minutes
Do the Math! (p. 131)	10 minutes	10 minutes
Explore/Explain: How Animals Spread Pollen (pp. 133-132)	25 minutes	25 minutes
Apply What You Know • Evidence Notebook (p. 134)	10 minutes	10 minutes
Elaborate: Take It Further (pp. 135- 136)	Optional	30 minutes
Evaluate: Lesson Check (pp. 137-139)	30 minutes	30 minutes
Lesson 3: What Plants and Animals	5 days (30	7 days (30
Live in Water Habitats?	minutes each)	minutes each)
Engage (pp. 140-141)	10 minutes	15 minutes
Alternate Engage Strategy (p. 140)	Optional	10 minutes
Explore/Explain: Ponds (pp. 142-143)	15 minutes	20 minutes
Apply What You Know • Evidence Notebook (p. 143)	10 minutes	10 minutes
Explore/Explain: River Deltas (pp. 144-145)	15 minutes	20 minutes
Apply What You Know • Evidence Notebook (p. 145)	10 minutes	10 minutes
Explore/Explain: Tide Pools (pp. 146- 148)	20 minutes	20 minutes
Apply What You Know • Read, Write,	10 minutes	15 minutes

Share! (p. 148)		
Hands-On Activity: Make a Model	30 minutes	30 minutes
Habitat (pp. 149-150) Elaborate: Take It Further (p. 151)	Optional	15 minutes
Elaborate: Take It Further • Do the	Optional	15 minutes
Math! (p. 152)	Optional	15 milates
Evaluate: Lesson Check (pp. 153-155)	30 minutes	30 minutes
Lesson 4: What Plants and Animals	5 days (30	7 days (30
Live in Land Habitats?	minutes each)	minutes each)
Engage (pp. 156-157)	15 minutes	15 minutes
Alternate Engage Strategy (p. 157)	Optional	5 minutes
Explore/Explain: Rain Forest Habitats (pp. 158-160)	25 minutes	25 minutes
Apply What You Know • Evidence Notebook (p. 161)	Optional	10 minutes
Explore/Explain: Forest Habitats (pp. 162-165)	25 minutes	25 minutes
Apply What You Know • Evidence Notebook (p. 165)	Optional	5 minutes
Explore/Explain: Savanna Habitats (pp. 166-169)	25 minutes	25 minutes
Apply What You Know • Evidence Notebook (p. 169)	Optional	10 minutes
Do the Math! (p. 170)	Optional	5 minutes
Hands-On Activity: Make a Habitat Exhibit (pp. 171-172)	30 minutes	30 minutes
Elaborate: Take It Further (p. 173)	Optional	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 174)	Optional	15 minutes
Evaluate: Lesson Check (pp. 175-177)	30 minutes	30 minutes
You Solve It	Optional	1 day (30
		minutes)
Unit 3 Performance Task (pp. 178-179)	Optional	2 days (30
		minutes each)
Unit 3 Review (pp. 180-182)	1 day (30	1 day (30
Unit 3 Test (Assessment Guide)	minutes) 1 day (30	minutes) 1 day (30
ome a rest (Assessment Guide)	minutes)	minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 3	22 days	38 days
	I .	1

Hoit A. Fouth/a Conform	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 4: Earth's Surface Unit 4 Project	Optional	3 days (30	
ome 4 i roject	Ориона	minutes each)	
Lesson 1: Where is Water Found on	5 days (30	7 days (30	
Earth?	minutes each)	minutes each)	
Engage (pp. 186-187)	10 minutes	15 minutes	
Alternative Engage Strategy (p. 4)	Optional	10 minutes	
Explore/Explain: Lakes and Ponds (pp. 188-189)	15 minutes	15 minutes	
Apply What You Know (p. 189)	10 minutes	10 minutes	
Explore/Explain: Rivers and Oceans (pp. 190-191)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 191)	10 minutes	10 minutes	
Explore/Explain: Liquid or Solid (pp. 192-193)	20 minutes	20 minutes	
Do the Math! (p. 192)	Optional	10 minutes	
Apply What You Know (p. 194)	10 minutes	10 minutes	
Hands-On Activity: Locate Bodies of Water (pp. 195-196)	30 minutes	30 minutes	
Elaborate: Take It Further (pp. 197-198)	Optional	20 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 198)	Optional	15 minutes	
Evaluate: Lesson Check (pp. 199-201)	30 minutes	30 minutes	
Lesson 2: Engineer It • How Can We Map Land and Water	5 days (30 minutes each)	6 days (30 minutes each)	
Engage (pp. 202-203)	10 minutes	15 minutes	
Alternate Engage Strategy (p. 202)	10 minutes	15 minutes	
Explore/Explain: What Is a Map? (pp. 204-205)	25 minutes	25 minutes	
Hands-On Activity: Engineer It • Make a Map (pp. 209-210)	30 minutes	40 minutes	
Elaborate: Take It Further • Read, Write, Share! (p. 211)	25 minutes	30 minutes	
Elaborate: Take It Further • Do the Math! (p. 212)	20 minutes	25 minutes	

Evaluate: Lesson Check (pp. 213-215)	30 minutes	30 minutes
You Solve It	Optional	1 day (30 minutes)
Unit 4 Performance Task (pp. 216-217)	Optional	2 days (30 minutes each)
Unit 4 Review (pp. 218-220)	1 day (30 minutes)	1 day (30 minutes)
Unit 4 Test (Assessment Guide)	1 day (30 minutes)	1 day (30 minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 4:	12	23

	Core (2–3 days/week)	Comprehensive (daily)	Customize Your Pacing Guide
Unit 5: Environments for Living Thir	igs		
Unit 5 Project	Optional	3 days (30 minutes each)	
Lesson 1: What Changes on Earth	5 days (30	8 days (30	
Happen Slowly?	minutes each)	minutes each)	
Engage (pp. 224-225)	10 minutes	10 minutes	
Alternative Engage Strategy (p. 224)	Optional	5 minutes	
Explore/Explain: Weathering by Wind (pp. 226-227)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 227)	Optional	15 minutes	
Explore/Explain: Weathering by Water and Ice (pp. 228-229)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 229)	Optional	15 minutes	
Explore/Explain: Weathering by Plants (pp. 230-231)	15 minutes	15 minutes	
Apply What You Know • Evidence Notebook (p. 231)	Optional	10 minutes	
Explore/Explain: Erosion by Wind (pp. 232-234)	20 minutes	20 minutes	
Apply What You Know • Evidence Notebook (p. 234)	Optional	10 minutes	
Explore/Explain: Erosion by Water and	15 minutes	15 minutes	

Ice (pp. 235-236)		
Do the Math! (p. 235)	Optional	5 minutes
Apply What You Know (p. 236)	Optional	10 minutes
Hands-On Activity: Model Erosion (pp. 237-238)	30 minutes	30 minutes
Elaborate: Take It Further (p. 239)	Optional	10 minutes
Elaborate: Take It Further • Read, Write, Share! (p. 240)	Optional	10 minutes
Evaluate: Lesson Check (pp. 241-243)	30 minutes	30 minutes
Lesson 2: What Changes on Earth	5 days (30	7 days (30
Happen Quickly?	minutes each)	minutes each)
Engage (pp. 244-245)	10 minutes	10 minutes
Alternate Engage Strategy (p. 244)	Optional	5 minutes
Explore/Explain: Earthquakes (p. 246)	10 minutes	10 minutes
Apply What You Know • Evidence Notebook (p. 247)	Optional	10 minutes
Explore/Explain: Volcanoes (p. 248)	15 minutes	15 minutes
Do the Math! (p. 249)	5 minutes	5 minutes
Apply What You Know (p. 249)	Optional	5 minutes
Explore/Explain: Landslides (pp. 250-251, 252)	20 minutes	20 minutes
Apply What You Know (p. 251)	Optional	5 minutes
Explore/Explain: Hurricanes (pp. 253-254)	15 minutes	15 minutes
Apply What You Know • Read, Write, Share! (p. 254)	Optional	5 minutes
Explore/Explain: Floods (pp. 255-256)	15 minutes	15 minutes
Apply What You Know • Read, Write, Share! (p. 256)	Optional	10 minutes
Hands-On Activity: Model Quick Changes on Earth (pp. 257-258)	30 minutes	30 minutes
Elaborate: Take It Further (pp. 259- 260)	Optional	20 minutes
Evaluate: Lesson Check (pp. 261-263)	30 minutes	30 minutes
Lesson 3: Engineer It • How Can We	5 days (30	7 days (30
Prevent Wind and Water from	minutes each)	minutes each)
Changing Land?	15 main de -	15 minutes
Engage (pp. 264-265)	15 minutes	15 minutes
Alternate Engage Strategy (p. 264)	Optional	5 minutes
Explore/Explain: Changes Caused by Wind (pp. 266)	20 minutes	20 minutes
Do the Math! (p. 267)	10 minutes	10 minutes
Apply What You Know • Evidence	Optional	5 minutes

Notebook (p. 267)		
Explore/Explain: Changes Caused by	20 minutes	20 minutes
Water (pp. 268-269)		
Apply What You Know • Evidence	Optional	5 minutes
Notebook (p. 269)		
Explore/Explain: Ways to Prevent	25 minutes	25 minutes
Changes to Land (pp. 270-272)		
Apply What You Know • Read, Write,	Optional	15 minutes
Share! (p. 272)		
Hands-On Activity: Engineer It •	30 minutes	40 minutes
Prevent Water from Changing Land		
(pp. 273-274)		
Elaborate: Take It Further (pp. 275-	Optional	20 minutes
276)		
Evaluate: Lesson Check (pp. 277-279)	30 minutes	30 minutes
You Solve It	Optional	1 day (30
		minutes)
Unit 5 Performance Task (pp. 280-281)	Optional	2 days (30
		minutes each)
Unit 5 Review (pp. 282-284)	1 day (30	1 day (30
	minutes)	minutes)
Unit 5 Test (Assessment Guide)	1 day (30	1 day (30
	minutes)	minutes)
Performance-Based Assessment	Optional	2 days (30
(Assessment Guide)		minutes each)
Total Days for Unit 5:	17	32

The following Pacing Guide includes changes you can consider in order to streamline the learning process for each lesson within each unit. However, you are the expert on what will work in your classroom, as such, we've left room for you to customize the recommendations to best suit your needs and schedule. The lesson and class day interval suggestions provided are based on 30-minute instructional periods. The "Core" instructional pathway is based on two to three, 30-minute instructional periods per week, and the "Comprehensive" instructional pathway is based on five, 30-minute instructional periods per week.

The curriculum designers have provided helpful tips of what assignments are best suited for the core and comprehensive pathways, and as such you may assign these particular pieces to assist with adhering to the science schedule in your classroom. Other alterations to the schedule may be made, such as assigning part of the lesson components as homework. "Language SmArts" and "Evidence Notebook" prompts, as well as the "Do the Math" activities, may be assigned for independent work that is completed outside of the Science classroom period. The many options you are able to choose from when planning is solely up to your discretion.

This tool may be used by those working solely with the Online Interactive Edition, those working solely with the printed edition, and those who use a hybrid approach, using pieces of both. The titles shown are referenced in both print and online editions, and the provided numbers in parentheses correspond to the pages of the print student edition.

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 1: Engineering Processes			
Unit 1 Project	Optional	+60 minutes (2 Days)	
Lesson 1: Engineer It ● How Do We Define a	Problem?		
Engage (pp. 4-5)	10 minutes		
Explore/Explain: Defining Engineering Problems (pp. 6-10) • Apply What You Know (p. 7) • Evidence Notebook (p. 10)	30 minutes		
Hands-On Activity: Engineer It ● What's in the Way? (pp. 11-15)	30 minutes		
Explore/Explain: Exploring the Limits on Problem Solving (pp. 16-17) • Language SmArts (p. 17) • Evidence Notebook (p. 17)	20 minutes		
Elaborate: Take it Further (p.18)	10 minutes		
Evaluate: Lesson Check (pp. 19-21)	20 minutes		
Total Time:	4 Days	4 Days	
Lesson 2: Engineer It ● How Can We Design	a Solution?		
Engage (pp. 22-23)	10 minutes		
Explore/Explain: Water Movers (pp. 24-26) • Evidence Notebook (p.26)	25 minutes	+10 minutes • Apply What You Know (p. 25)	
Explore/Explain: How Dry Am I? (pp. 27-28)	10 minutes		
Hands-On Activity: Engineer It ● Modeling Irrigation (pp. 29-31)	45 minutes		

Explore/Explain: Testing, Testing (pp. 32-			
37)		+5 minutes	
• Evidence Notebook (p. 33)	35 minutes	Apply What You	
• Do the Math (pp. 36-37)		Know (p. 35)	
• Language SmArts (p. 37) Elaborate: Take It Further (p. 38)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 39-41)	•	+10 illillutes	
<u> </u>	20 minutes		
Total Time:	3 Days	4 Days	
Lesson 3: Engineer It ● How Do We Test and	-	ution?	
Engage (pp. 42-43)	10 minutes		
Explore/Explain: What Could Possibly Go			
Wrong? (pp.44-46)	25		
 Apply What You Know (p. 45) Language Smarts (p. 46) 	35 minutes		
• Evidence Notebook (p. 46)			
Hands-On Activity: Engineer It ● Looking It	22		
Over (pp. 47-50)	30 minutes		
Explore/Explain: The BestFor Now (pp.	25 minutes		
53-54)			
Elaborate: Take It Further (pp. 55-56)	10 minutes		
Evaluate: Lesson Check (pp. 57-59)	20 minutes		
Total Time:	4 Days	4 Days	
You Solve It	Optional	+30 minutes	
Unit 1 Performance Task (pp. 60 -61)	Optional	+60 minutes (2 Days)	
Unit 1 Review (pp. 62-64)	30 minutes	, , ,	
Unit 1 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Optional	+30 minutes	
(Assessment Guide)	42.0	20 D	
Total Unit Days:	13 Days	20 Days	
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		npr	ust
	₽	prehensive Allotted	Custom Pacing
	Core Path Allotted Time	ehensive Path Allotted Time	n P
	Core tted ⁻	ive	aci.
	E P:	H. Pa	ng
	Path Time	Path Time	
Unit 2: Forces			
Unit 2 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What are Forces?	- 10.0.101	22	
Engage (pp. 68-69)	10 minutes		
Explore/Explain: Forces Everywhere (pp.	10	+10 minutes	
70-73)	25 minutes	Apply What You	
• Language Smarts (p. 73)		Know (p. 71)	
Explore/Explain: Strong Enough (pp. 74-76)			
• Evidence Notebook (p. 75)	15 minutes		
• Do the Math (p. 76)			
Hands-On Activity: Demonstrating How Forces Affect Motion (pp. 77-79)	30 minutes		
Explore/Explain: Which Way? (pp. 80-82)	20 minutes		

Evidence Notebook (p. 81)			
• Language Smarts (p. 81)			
• Language Smarts (p. 82)			
Elaborate: Take It Further (pp. 83-84)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 85-87)	15 minutes		
Total Time:	3 Days	4 Days	
Lesson 2: What Are Some Types of Forces?			
Engage (pp. 88-89)	10 minutes		
Explore/Explain: Touchy, Touchy (pp. 90-93)	15 minutes	+5 minutes • <i>Do the Math (p. 93)</i>	
• Evidence Notebook (p. 91)			
Explore/Explain: What Are Everyday Forces? (pp. 94-99) • Language Smarts (p. 98) • Evidence Notebook (p. 99)	45 minutes	+5 minutes • Apply What You Know (p. 95)	
Hands-On Activity: Exploring Forces (pp. 100-102)	30 minutes		
Elaborate: Take It Further (p. 38) • Language Smarts (p. 104)	20 minutes		
Evaluate: Lesson Check (pp. 105-107)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 3: Engineer It • What Forces Act from	a Distance?		
Engage (pp. 108-109)	5 minutes		
Explore/Explain: Magnets Everywhere! (pp.			
110-114)	20 minutes		
• Evidence Notebook (p. 113)	20 1111111111111		
Apply What You Know (p. 113) The state of the state			
Explore/Explain: Electricity (pp. 115-120) • Evidence Notebook (p. 116) • Apply What You Know (p. 116)	40 minutes		
 Language Smarts (p. 117) Hands-On Activity: Build an Electromagnet 			
(pp. 121-124)	30 minutes		
Elaborate: Take It Further (pp. 125-126)	5 minutes	+15 minutes • Language Smarts (p. 126)	
Evaluate: Lesson Check (pp. 127-129)	20 minutes		
Total Time:	4 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 2 Performance Task (pp. 130-131)	Optional	+30 minutes	
Unit 2 Review (pp. 132-134)	30 minutes		
Unit 2 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	13 Days	21 Days	
			•

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 3: Motion			
Unit 3 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Is Motion?			
Engage (pp. 138-139)	10 minutes		
Explore/Explain: Here or There (pp. 140-143) • Evidence Notebook (p. 140) • Language SmArts (p. 143)	25 minutes	+10 minutes • Evidence Notebook (p. 140)	
Explore/Explain: Speed It Up! (pp. 144-149) • Language SmArts (p. 146)	30 minutes	+10 minutes • Do the Math (p. 144- 145)	
Hands-On Activity: Slow Walk, Fast Walk (pp. 150-152)	30 minutes		
Elaborate: Take It Further (pp. 153-54)	5 minutes	+5 minutes • Language SmArts (p. 154)	
Evaluate: Lesson Check (pp. 155-157)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: What Are Some Patterns in Motion	1?		
Engage (pp. 158-159)	10 minutes		
Explore/Explain: Back and Forth, Up and Down (pp. 160-167) • Evidence Notebook (p. 161) • Apply What You Know (p. 163) • Language SmArts (p. 163)	35 minutes	+5 minutes • Language SmArts (p. 165)	
Hands-On Activity: Tick Tock (pp. 168-170)	30 minutes		
Elaborate: Take It Further (p. 171-172) • Language SmArts (p. 172)	15 minutes	+5 minutes • Do the Math (p. 172)	
Evaluate: Lesson Check (pp. 173-175)	15 minutes		
Total Time:	3 Days	4 Days	
You Solve It	Optional	+30 minutes	
Unit 3 Performance Task (pp. 176-177)	Optional	+30 minutes	
Unit 3 Review (pp. 178-180)	30 minutes		
Unit 3 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	9 Days	16 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 4: Life Cycles and Inherited Traits			
Unit 4 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What are some Plant Life Cycles?			
Engage (pp. 184-185)	10 minutes		
Explore/Explain: So Many Stages (pp. 186-190) • Language SmArts (p. 187)	20 minutes	+20 minutes • Evidence Notebook (p. 187) • Apply What You Know (p. 190)	
Hands-On Activity: How Do Plants Grow (pp. 191-193)	30 minutes	си (р. 200)	
Explore/Explain: How Do Life Cycles Differ? (pp. 194-199) • Language SmArts (p. 195) • Evidence Notebook (p. 199) • Language SmArts (p. 199)	25 minutes		
Explore/Explain: Broken Cycles (pp. 200-202) • Evidence Notebook (p. 201) • Language SmArts (p. 202)	30 minutes		
Elaborate: Take It Further (pp. 203-204)	20 minutes		
Evaluate: Lesson Check (pp. 205-207)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: What Are Some Animal Life Cycles?		<u>-</u>	
Engage (pp. 208-209)	5 minutes		
Explore/Explain: Stage by Stage (pp. 210-216) • Evidence Notebook (p. 213) • Language SmArts (p. 216)	25 minutes	+5 minutes • Apply What You Know (p. 216)	
Explore/Explain: Major Changes (pp. 217-221) • Apply What You Know (p. 220) • Evidence Notebook (p. 221)	40 minutes		
Hands-On Activity: Observing Mealworm Metamorphosis (pp. 222-224)	30 minutes		
Explore/Explain: Step by Step (pp. 225-228) • Evidence Notebook (p. 226) • Do the Math (p. 227) • Language SmArts (p. 228)			
Elaborate: Take It Further (pp. 229-230)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 231-233)	15 minutes		
Total Time:	3 Days	4 Days	
Lesson 3: What Are Inherited Plant and Anim		,	
Engage (pp. 234-235)	5 minutes		
Explore/Explain: Plants Have Parents (pp. 236-241)	25 minutes	+5 minutes	

• Do the Math (pp. 238-239)		Evidence Notebook	
• Language SmArts (p. 240)		(p. 241)	
Explore/Explain: Do Animals Look Like Their			
Parents (pp. 242-245)			
 Apply What You Know (p. 245) 	30 minutes		
• Evidence Notebook (p. 245)			
• Language SmArts (p. 245)			
Hands-On Activity: Monster Traits (pp. 246-	30 minutes		
248)	50 minutes		
Elaborate: Take It Further (pp. 249-250)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 251-253)	20 minutes		
Total Time:	3 Days	4 Days	
You Solve It	Optional	+30 minutes	
Unit 4 Performance Task (pp. 254-255)	Optional	+30 minutes	
Unit 4 Review (pp. 256-258)	30 minutes		
Unit 4 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Ontional	+30 minutes	
(Assessment Guide)	Optional	+50 IIIIIIutes	
Total Unit Days:	13 Days	21 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 5: Organisms and Their Environme	ent		
Unit 5 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Does the Environment Affect	Traits?		
Engage (pp. 262-263)	10 minutes		
Explore/Explain: Plants and the Environment (pp. 264-267) • Evidence Notebook (p. 266) • Language SmArts (p. 267)	20 minutes	+10 minutes • Apply What You Know (p. 267)	
Hands-On Activity: How Much Water Do Plants Need? (pp. 268-271)	30 minutes (additional 5 minutes for 7 days)		
Explore/Explain: Animals and the Environment (pp. 272-275) • Evidence Notebook (p. 273) • Language SmArts (p. 274)	20 minutes		
Elaborate: Take It Further (pp. 276-278)	15 minutes		
Evaluate: Lesson Check (pp. 279-281)	15 minutes		
Total Time:	4 Days	4 Days	
Lesson 2: What Are Adaptations?			
Engage (pp. 282-283)	5 minutes		
Explore/Explain: Organisms Adapt (pp. 284-287) • Evidence Notebook (p. 285)	25 minutes	+15 minutes • Apply What You Know (p. 286)	

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• Language SmArts (p. 287)			
Explore/Explain: Adaptation and		+15 minutes	
Environment (pp. 288-290)	15 minutes	Apply What You	
• Evidence Notebook (p. 289)		Know (p. 290)	
• Language SmArts (p. 290)			
Explore/Explain: Surviving and Thriving (pp.			
291-293)	15 minutes		
• Language SmArts (p. 292)	25		
• Evidence Notebook (p. 293)			
Hands-On Activity: Just Pecking? (pp. 294-	45 minutes		
296)	45 111114165		
Elaborate: Take It Further (pp. 297-298)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 299-301)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 3: How Can Organisms Succeed in The	ir Environment	?	
Engage (pp. 302-303)	5 minutes		
Explore/Explain: Differences That Win (pp.			
304-307)	25		
• Evidence Notebook (p. 306)	25 minutes		
• Language SmArts (p. 307)			
Hands-On Activity: Battle of the Beans! (pp.	20		
308-310)	30 minutes		
Explore/Explain: Better Together (pp. 311-			
314)			
• Apply What You Know (p. 313)	35 minutes		
• Evidence Notebook (p. 313)			
• Language SmArts (p. 314)			
3 3 17 ,			
	Optional	+20 minutes	
Elaborate: Take It Further (pp. 249-250)	Optional 20 minutes	+20 minutes	
	20 minutes		
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time:	20 minutes 4 Days	+20 minutes 5 Days	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments	20 minutes 4 Days		
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321)	20 minutes 4 Days 5 Change?	5 Days	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp.	20 minutes 4 Days 5 Change? 5 minutes	5 Days +10 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324)	20 minutes 4 Days 5 Change?	5 Days +10 minutes • Apply What You	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322)	20 minutes 4 Days 5 Change? 5 minutes	5 Days +10 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322)	20 minutes 4 Days 5 Change? 5 minutes	+10 minutes • Apply What You Know (p. 324)	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes	
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Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes	
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Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the	20 minutes 4 Days 5 Change? 5 minutes 15 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327)	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes Optional	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes Optional 15 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days:	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes Optional 15 minutes 4 Days	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days:	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes Optional 15 minutes 4 Days Optional	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes 5 Days +30 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days: You Solve It Unit 5 Performance Task (pp. 254-255)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes Optional 15 minutes 4 Days Optional Optional	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments: Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) • Evidence Notebook (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days: You Solve It Unit 5 Performance Task (pp. 254-255) Unit 5 Review (pp. 256-258)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes Optional 15 minutes 4 Days Optional Optional 30 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes 5 Days +30 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments: Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days: You Solve It Unit 5 Performance Task (pp. 254-255) Unit 5 Review (pp. 256-258) Unit 5 Test (Assessment Guide)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes Optional 15 minutes 4 Days Optional Optional	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes 5 Days +30 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days: You Solve It Unit 5 Performance Task (pp. 254-255) Unit 5 Review (pp. 256-258) Unit 5 Test (Assessment Guide) Performance-Based Assessment	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes Optional 15 minutes 4 Days Optional Optional 30 minutes	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes 5 Days +30 minutes	
Elaborate: Take It Further (pp. 249-250) Evaluate: Lesson Check (pp. 251-253) Total Time: Lesson 4: What Happens When Environments: Engage (pp. 320-321) Explore/Explain: Everything Changes (pp. 322-324) • Language SmArts (p. 322) Explore/Explain: Staying Alive (pp. 325-328) • Language SmArts (p. 325) • Evidence Notebook (p. 328) Explore/Explain: Moving Upstream (pp. 329-331) • Evidence Notebook (p. 329) • Language SmArts (p. 331) Hands-On Activity: How Can It Cross the Road? (pp. 332-334) Elaborate: Take It Further (pp. 335-336) Evaluate: Lesson Check (pp. 337-339) Total Days: You Solve It Unit 5 Performance Task (pp. 254-255) Unit 5 Review (pp. 256-258) Unit 5 Test (Assessment Guide)	20 minutes 4 Days 5 Change? 5 minutes 15 minutes 15 minutes 45 minutes 45 minutes 45 minutes 40 Days 4	+10 minutes • Apply What You Know (p. 324) +15 minutes • Apply What You Know (p. 327) +10 minutes 5 Days +30 minutes +30 minutes	

		Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
	Unit 6: Fossils			
	Unit 6 Project	Optional	+60 minutes (2 Days)	
	Lesson 1: What Is a Fossil?			
	Engage (pp. 348-349)	5 minutes		
	Explore/Explain: What Are Fossils? (pp. 350-357) • Language SmArts (p. 353) • Evidence Notebook (p. 353) • Evidence Notebook (p. 357)	45 minutes	+10 minutes • Apply What You Know (p. 357)	
	Hands-On Activity: Walk This Way! (pp. 358-359)	30 minutes		
	Explore/Explain: Clues from Fossils (pp. 360-364) • Language SmArts (p. 362) • Evidence Notebook (p. 363) • Language SmArts (p. 364)	30 minutes	+10 minutes • Do the Math (p. 361)	
	Elaborate: Take It Further (p. 365-366)	Optional	+10 minutes	
	Evaluate: Lesson Check (pp. 367-369)	15 minutes	· 10 milates	
	Total Time:	4 Days	5 Days	
-	Lesson 2: What Do Fossils Tell About the Pas		3 Days	
	Engage (pp. 370-371)	10 minutes	=	
	Explore/Explain: Wet or Dry? (p. 372-375) • Language SmArts (p. 373) • Evidence Notebook (p. 375)	20 minutes		
	Explore/Explain: Yesterday and Today (pp. 376-379) • Language SmArts (p. 377)	15 minutes	+10 minutes • Do the Math (p. 379) • Evidence Notebook (p. 379)	
	Hands-On Activity: What Can You Learn from Studying a Fossil? (pp. 380-382)	30 minutes		
	Explore/Explain: How'd That Get There? (p. 383-388) • Evidence Notebook (p. 387) • Language SmArts (p. 388)	30 minutes	+10 minutes • Apply What You Know (p. 385)	
	Elaborate: Take It Further (pp. 389-390)	Optional	+10 minutes	
	Evaluate: Lesson Check (pp. 391-393)	15 minutes		
	Total Time:	4 Days	5 Days	
	You Solve It	Optional	+30 minutes	
	Unit 6 Performance Task (pp. 394-395)	Optional	+30 minutes	
	Unit 6 Review (pp. 396-398)	30 minutes		
	Unit 6 Test (Assessment Guide)	30 minutes		

	Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
	Total Unit Days:	10 Days	17 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 7: Weather and Patterns			
Unit 7 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How is Weather Measured?			
Engage (pp. 402-403)	5 minutes		
Explore/Explain: What's It Like Out? (pp. 404-405) • Evidence Notebook (p. 404) • Language SmArts (p. 405)	15 minutes		
Explore/Explain: Weather Gadgets (pp. 406-409) • Evidence Notebook (p. 407) • Do the Math (p. 409) • Language SmArts (p. 409)	30 minutes	+20 minutes • Apply What You Know (p. 407)	
Hands-On Activity: Analyzing Weather Data (pp. 410-412)	30 minutes		
Explore/Explain: Weather Everywhere (pp. 413-416) • Do the Math (p. 414) • Evidence Notebook (p. 415)	25 minutes	+5 minutes • Apply What You Know (p. 416)	
Elaborate: Take It Further (p. 417-418)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 419-421)	20 minutes		
Total Time:	4 Days	6 Days	
Lesson 2: How Can We Predict the Weather	_	•	
Engage (pp. 422-423)	5 minutes		
Explore/Explain: Time and Temperature (p. 424-427) • Evidence Notebook (p. 424) • Do the Math (p. 425)	25 minutes	+20 minutes • Language SmArts (p. 425) • Apply What You Know (p. 427)	
Explore/Explain: A Year of Change (pp. 428-431) • Language SmArts (p. 431)	25 minutes	+15 minutes • Evidence Notebook (p. 431)	
Hands-On Activity: Weather Here and There (pp. 432-435)	30 minutes		
Explore/Explain: Predicting Weather (pp. 436-438) • Language SmArts (p. 437)	15 minutes	+5 minutes • Evidence Notebook (p. 436)	
Elaborate: Take It Further (pp. 439-440)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 441-443)	20 minutes		

Total Time:	4 Days	6 Days	
Lesson 3: What Are Some Severe Weather	-	-	•
Engage (pp. 444-445)	5 minutes		
Explore/Explain: Cause and Effect		+15 minutes	
Weather (p. 446-449)		 Apply What You 	
		Know (p. 446)	
	20 minutes	Language SmArts	
		(p. 447)	
		• Evidence	
Explore/Explain: Using the Data (pp. 450-		Notebook (p. 448)	
453)	35 minutes		
• Evidence Notebook (p. 450)	33 minutes		
Hands-On Activity: Smashing Floods (pp.			
454-456)	30 minutes		
Explore/Explain: Reducing Risk (pp. 457-			
460)		+5 minutes	
• Evidence Notebook (p. 459)	40 minutes	Language SmArts	
• Language SmArts (p. 460)		(p. 458)	
Elaborate: Take It Further (pp. 461-462)			
	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 463-465)	20 minutes		
Total Time:		6 Days	
Lesson 4: What Are Types of Climates?	5 Days	6 Days	
Engage (pp. 466-467)	5 minutes		
Explore/Explain: Out of Place (p. 468-	3 minutes		
475)			
• Evidence Notebook (p. 469)		+15 minutes	
• Language SmArts (p. 469)	55 minutes	Apply What You	
• Evidence Notebook (p. 473)		Know (p. 475)	
• Language SmArts (p. 475)			
Hands-On Activity: Looking for a New	30 minutes		
Home (pp. 476-478)	50 Illillutes		
Explore/Explain: Something Different		+5 minutes	
(pp. 479-481)	20 minutes	• Evidence Notebook	
• Do the Math (p. 481)		(p. 481)	
Elaborate: Take It Further (pp. 482-483)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 485-487)	15 minutes		
Total Days:	4 Days	6 Days	
You Solve It	Optional	+30 minutes	
Unit 7 Performance Task (pp. 488-489)	Optional	+30 minutes	
Unit 7 Review (pp. 490-492)	30 minutes		
Unit 7 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Optional	+30 minutes	
(Assessment Guide)	•		
Total Unit Days:	19 Days	31 Days	

The following Pacing Guide includes changes you can consider in order to streamline the learning process for each lesson within each unit. However, you are the expert on what will work in your classroom, as such, we've left room for you to customize the recommendations to best suit your needs and schedule. The lesson and class day interval suggestions provided are based on 30-minute instructional periods. The "Core" instructional pathway is based on two to three, 30-minute instructional periods per week, and the "Comprehensive" instructional pathway is based on five, 30-minute instructional periods per week.

The curriculum designers have provided helpful tips of what assignments are best suited for the core and comprehensive pathways, and as such you may assign these particular pieces to assist with adhering to the science schedule in your classroom. Other alterations to the schedule may be made, such as assigning part of the lesson components as homework. "Language SmArts" and "Evidence Notebook" prompts, as well as the "Do the Math" activities, may be assigned for independent work that is completed outside of the Science classroom period. The many options you are able to choose from when planning is solely up to your discretion.

This tool may be used by those working solely with the Online Interactive Edition, those working solely with the printed edition, and those who use a hybrid approach, using pieces of both. The titles shown are referenced in both print and online editions, and the provided numbers in parentheses correspond to the pages of the print student edition.

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 1: Engineering Processes			
Unit 1 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Do Engineers Define Problem	s?		
Engage (pp. 4-5)	5 minutes		
Explore/Explain: What is Technology? (pp. 6-8) • Apply What You Know (p. 7) • Evidence Notebook (p. 8) • Language Smarts (p.8)	40 minutes		
Hands-On Activity: Menu Planning (pp. 9-13)	30 minutes		
Explore/Explain: Real-World Limits (pp. 14-16) • Evidence Notebook (p. 16)	15 minutes	+10 minutes • Apply What You Know (p.15)	
Elaborate: Take It Further (pp. 17-18)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 19-21)	20 minutes		
Total Time:	3 Days	4 Days	
Lesson 2: How Do Engineers Design Solution	s?		
Engage (pp. 22-23)	10 minutes		
Explore/Explain: Research Matters! (pp. 24-27) • Language SmArts (p. 27)	20 minutes	+5 minutes • Evidence Notebook (p. 27)	
Explore/Explain: Past Hearing Helpers (pp. 28-30)	20 minutes	+10 minutes	

		• Apply What You Know (p. 30) • Evidence Notebook (p. 30)	
Explore/Explain: Passing the Test (pp. 31-34)	20 minutes	+5 minutes • Evidence Notebook (p. 34)	
Hands-On Activity: Design It! (pp. 35-37)	30 minutes		
Elaborate: Take It Further (p. 38-40) ■ Elaborate: Take It Further ■ Do the Math (p. 40)	20 minutes		
Evaluate: Lesson Check (pp. 41-43)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 3: How Do Engineers Test and Impro	ve Prototypes?		
Engage (pp. 44-45)	5 minutes		
Hands-On Activity: Class Collaboration (pp. 46-48)	30 minutes		
Explore/Explain: Things Fail and Improve (pp. 49-51) • Evidence Notebook (p. 51)	20 minutes	+15 minutes • Apply What You Know (p. 49)	
Explore/Explain: Getting Better (pp. 52-54) • Evidence Notebook (p. 54) • Language SmArts (p. 54)	20 minutes	+15 minutes • Apply What You Know (p. 54)	
Elaborate: Take It Further (pp. 55-56)	15 minutes		
Evaluate: Lesson Check (pp. 57-59)	20 minutes		
Total Time:	3 Days	4 Days	
You Solve It	Optional	+30 minutes	
Unit 1 Performance Task (pp. 60-61)	Optional	+30 minutes	
Unit 1 Review (pp. 62-64)	30 minutes		
Unit 1 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	12 Days	20 Days	
		T	
	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 2: Energy			
Unit 2 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Is Energy?		1	
Engage (pp. 68-69)	5 minutes		
Explore/Explain: Energy Is All Around (pp. 70-75) • Language Smarts (p. 71) • Evidence Notebook (p. 73) • Apply What You Know (p. 75)	45 minutes	+10 minutes • Apply What You Know (p. 71) • Do the Math (p. 75)	

Hands-On Activity: Light the Bulb (pp. 76-77)	30 minutes		
Explore/Explain: Energy Transfer (pp. 78-82) • Language SmArts (p. 79) • Language SmArts (p. 81)	40 minutes	+5 minutes • Evidence Notebook (p. 79)	
Elaborate: Take It Further (pp. 83-84)	10 minutes		
Evaluate: Lesson Check (pp. 85-87)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: How Is Energy Transferred?	<u> </u>	<u>, </u>	
Engage (pp. 88-89)	5 minutes		
Explore/Explain: Heat (pp. 90-94) • Language SmArts (p. 93)	25 minutes	+5 minutes • Evidence Notebook (p. 93)	
Explore/Explain: Here Comes the Sun (pp. 95-98) • Evidence Notebook (p. 97)	20 minutes	+5 minutes • Language SmArts (p. 97)	
Hands-On Activity: Design and Test a Solar Cooker (pp. 99-101)	30 minutes		
Explore/Explain: Seeing Sound (pp. 102-108) • Do the Math (p. 106)	35 minutes	+15 minutes • Evidence Notebook (p. 102) • Apply What You Know (p. 103) • Apply What You Know (p. 107)	
Elaborate: Take It Further (pp. 109-110)	10 minutes		
Evaluate: Lesson Check (pp. 111-113)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Do Collisions Show Energy?		-	
Engage (pp. 114-115)	5 minutes		
Explore/Explain: Things That Move Have Energy (pp. 116-121) • Evidence Notebook (p. 120) • Language SmArts (p. 120)	25 minutes	+20 minutes • Apply What You Know (p. 118) • Apply What You Know (p. 120)	
Hands-On Activity: Test It! Stored Energy in a Rubber Band (pp. 122-124)	30 minutes		
Explore/Explain: Wonderful Springs (pp. 125-127) • Language SmArts (p. 127)	20 minutes		
Explore/Explain: Collisions (pp. 128-130) • Language SmArts (p. 128) • Apply What You Know (p. 130)	20 minutes	+5 minutes • Evidence Notebook (p. 128)	
Elaborate: Take It Further (pp. 131-132)	10 minutes		
Evaluate: Lesson Check (pp. 133-135)	15 minutes		
Total Time:	4 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 2 Performance Task (pp. 136-137)	Optional	+30 minutes	
Unit 2 Review (pp. 138-140)	30 minutes		
Unit 2 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	

Total Unit Days:	16 Days	24 Days	
	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 3: Waves and Information Transf	er		
Unit 3 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Are Waves?			
Engage (pp. 144-145)	5 minutes		
Hands-On Activity: Let's Make Waves! (pp. 146-148)	30 minutes		
Explore/Explain: How Waves Transfer Energy (pp. 149-155) • Evidence Notebook (p. 153) • Language SmArts (p. 155)	30 minutes	+10 minutes • Apply What You Know (p. 151) • Evidence Notebook (p. 155)	
Explore/Explain: Wave Parts (pp. 156-160) • Evidence Notebook (p. 158) • Do the Math (p. 159)	35 minutes	+5 minutes • Language SmArts (p. 156)	
Explore/Explain: Waves Interact (pp. 161-164) • Evidence Notebook (p. 163)	25 minutes		
Elaborate: Take It Further (pp. 165-166)	10 minutes		
Evaluate: Lesson Check (pp. 167-169)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: How Does Light Reflect?			
Engage (pp. 170-171)	5 minutes		
Hands-On Activity: Disappearing Coins (pp. 172-173)	15 minutes		
Explore/Explain: Reflection and Our Eyes (pp. 174-181) • Evidence Notebook (p. 175)	20 minutes	+10 minutes • Apply What You Know (p. 180)	
Hands-On Activity: Reflecting Angles (pp. 182-184)	30 minutes		
Explore/Explain: Refraction and Lenses (pp. 185-194) • Do the Math (p. 185) • Evidence Notebook (p. 191) • Apply What You Know (p. 193) • Language SmArts (p. 194)	55 minutes	+10 minutes • Language SmArts (p. 187) • Evidence Notebook (p. 188)	
Elaborate: Take It Further (p. 195-196)	10 minutes		
Evaluate: Lesson Check (pp. 197-199)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Is Information Transferred fro	<u> </u>	-	
Engage (pp. 200-201)	5 minutes		

Explore/Explain: History of Information Transfer (pp. 202-207) • Language SmArts (p. 202)	30 minutes	+10 minutes • Apply What You	
Language SmArts (p. 204)Evidence Notebook (p. 206)		Know (p. 207)	
Hands-On Activity: Pixels to Pictures (pp. 208-209)	20 minutes		
Explore/Explain: Bits and Bytes (pp. 210-218) • Do the Math (p. 211) • Language SmArts (p. 212) • Evidence Notebook (p. 213) • Language SmArts (p. 215) • Apply What You Know (p. 216)	60 minutes	+10 minutes • Apply What You Know (p. 210) • Apply What You Know (p. 216)	
Elaborate: Take It Further (p. 219-220)	10 minutes		
Evaluate: Lesson Check (pp. 221-223)	15 minutes		
Total Time:	5 Days	6 Days	
You Solve It	Optional	+30 minutes	
Unit 3 Performance Task (pp. 224-225)	Optional	+30 minutes	
Unit 3 Review (pp. 226-228)	30 minutes		
Unit 3 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	16 Days	24 Days	
	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 4: Plant Structure and Function	T		
Unit 4 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Are Some Plant Parts and He	ow Do They Fur	nction?	
Engage (pp. 232-233) Explore/Explain: Plant Dissection (pp. 234-238) • Evidence (p. 238) • Language SmArts (p. 238)	40 minutes		
Explore/Explain: What's Inside? (pp. 239-242) • Evidence Notebook (p. 242)	25 minutes	+25 minutes • Language SmArts (p. 240) • Apply What You Know (p. 242)	
Hands-On Activity: Hold the Soil (pp. 243-245)	30 minutes		
Explore/Explain: Can Plants Move? (pp. 246-248) • Evidence Notebook (p. 248) • Apply What You Know (p. 248)	35 minutes		

• Language SmArts (p. 248)			
Elaborate: Take It Further (pp. 249-250)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 155-157)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: How Do Plants Grow and Reprodu	ce?	<u>-</u>	
Engage (pp. 254-255)	5 minutes		
Explore/Explain: Why Do Plants Have		+5 minutes	
Flowers? (pp. 256-260)	25 minutes	Evidence Notebook	
• Language SmArts (p. 257)	25 111114165	(p. 259)	
Apply What You Know (p. 259) The state of the state		(/	
Explore/Explain: What If Plants Don't Produce Flowers? (pp. 261-264)		+10 minutes	
• Evidence Notebook (p. 264)	30 minutes	 Apply What You 	
• Language SmArts (p. 264)		Know (p. 261)	
Explore/Explain: On the Move (pp. 265-			
267)	25 minutes		
• Evidence Notebook (p. 267)	25 millutes		
• Language SmArts (p. 267)			
Hands-On Activity: Flying High (pp. 268- 270)	30 minutes		
• Elaborate: Take It Further (pp. 271-272)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 173-175)	15 minutes		
Total Time:	4 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 4 Performance Task (pp. 276-277)	Optional	+30 minutes	
Unit 4 Review (pp. 278-280)	30 minutes		
Unit 4 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	11 Days	18 Days	
		0	
		Comp	0
			Cust
	≧	eh: All	ton
	C	ens	n P
	Core tted	;ive ;ed	stom Pacing
		ehensive Path Allotted Time	ng
	Path Time	ath ne	
Unit 5: Animal Structure and Function			
Unit 5 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What are Some External Structure	s of Animals?		
Engage (pp. 284-285)	5 minutes		
Explore/Explain: Body Building (pp. 286-291)			
• Evidence Notebook (p. 286)	30 minutes		
• Language SmArts (p. 288)			
Apply What You Know (p. 291) The last of the Network (p. 291)		46 .	
Explore/Explain: Inspired by Nature (pp. 292-295)	35 minutes	+10 minutes	
● Evidence Notebook (p. 294)	אווווווענפט ווווווענפט	 Apply What You Know (p. 295) 	
- Evidence Notebook (p. 254)		(p. 255)	

• Language SmArts (p. 295)			
Explore/Explain: Inspired by Nature (pp.		+25 minutes	
292-295)	25 minutes	Apply What You	
Evidence Notebook (p. 294)Language SmArts (p. 295)		Know (p. 295)	
Hands-On Activity: Staying Warm (pp. 296-			
298)	30 minutes		
Elaborate: Take It Further (pp. 299-300)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 301-303)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: What are Some Internal Structures		, , , , , , , , , , , , , , , , , , ,	
Engage (pp. 304-305)	5 minutes		
Explore/Explain: Pumping Parts (pp. 306-		+5 minutes	
310)	20	• Do the Math (p. 308)	
• Evidence Notebook (p. 310)	30 minutes	• Language SmArts (p.	
		309)	
Hands-On Activity: Pump It Up! (pp. 311-313)	30 minutes		
Hands-On Activity: Reflecting Angles (pp. 182-184)	30 minutes		
Explore/Explain: Food for Thought (pp.		+15 minutes	
314-318)		Evidence Notebook	
• Language SmArts (p. 318)	35 minutes	(p. 316)	
		 Apply What You Know (p. 318) 	
Elaborate: Take It Further (pp. 319-320)	15 minutes	men (preze)	
Evaluate: Lesson Check (pp. 321-323)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Do Senses Work?	-	-	
Engage (pp. 324-325)	5 minutes		
Explore/Explain: Touchy, Feely (pp. 326-			
329)	30 minutes		
• Language SmArts (p. 328)	30 minutes		
• Evidence Notebook (p. 329)			
Hands-On Activity: Touch Test (pp. 330-332)	30 minutes		
Explore/Explain: Is That Something I Want			
to Eat? (pp. 333-335)		+10 minutes	
Apply What You Know (p. 333)	30 minutes	Apply What You	
• Evidence Notebook (p. 335)		Know (p. 335)	
Language SmArts (p. 335) Final and (Small in Sights and Sounds (p. 335)			
Explore/Explain: Sights and Sounds (pp. 336-338)		+10 minutes	
• Language SmArts (p. 337)	20 minutes	 Apply What You 	
• Evidence Notebook (p. 338)		Know (p. 338)	
Elaborate: Take It Further (pp. 339-340)		+10 minutes	
	10 minutes	• Language SmArts (p. 340)	
			•
Evaluate: Lesson Check (pp. 341-343)	15 minutes		
Evaluate: Lesson Check (pp. 341-343) Total Time:	15 minutes 4 Days	5 Days	
Total Time:	4 Days	5 Days +30 minutes	
***		5 Days +30 minutes +30 minutes	

	Unit 5 Test (Assessment Guide)	30 minutes		
	Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
	Total Unit Days:	15 Days	23 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 6: Changes to Earth's Surface			
Unit 6 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Does Water Shape Earth's Surf	•	100 minutes (2 Days)	
Engage (pp. 352-353)	5 minutes		
Explore/Explain: Making a Move (pp. 354-357) • Apply What You Know (p. 357)	25 minutes	+5 minutes • Evidence Notebook (p. 355)	
Explore/Explain: Away It Goes! (pp. 358-361) • Evidence Notebook (p. 361) • Language SmArts (p. 361)	25 minutes	+5 minutes • Language SmArts (p. 358)	
Explore/Explain: Cold Stuff! (pp. 362-365) • Language SmArts (p. 363) • Evidence Notebook (p. 365)	30 minutes	+25 minutes • Apply What You Know (p. 363)	
Hands-On Activity: The Rate of Change (pp. 366-368)	30 minutes		
Explore/Explain: What About Us? (pp. 369-372) • Evidence Notebook (p. 370)	20 minutes		
Elaborate: Take It Further (pp. 373-374)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 375-377)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: How Do Other Factors Shape Earth'	s Surface?		
Engage (pp. 378-379)	5 minutes		
Explore/Explain: Organisms and Environments (pp. 380-385) • Evidence Notebook (p. 382) • Language SmArts (p. 385)	40 minutes	+20 minutes • Apply What You Know (p. 381) • Language SmArts (p. 383)	
Explore/Explain: Environments Change (pp. 386-391) • Evidence Notebook (p. 389) • Language SmArts (p. 390)	25 minutes	+5 minutes • Apply What You Know (p. 387)	
Hands-On Activity: Finding Change (pp. 392-394)	30 minutes		
Explore/Explain: Always Changing (pp. 395-398) • Evidence Notebook (p. 396) • Do the Math (p. 398)	45 minutes		

	• Evidence Notebook (p. 398)			
	Elaborate: Take It Further (pp. 399-400)	Optional	+10 minutes	
	Evaluate: Lesson Check (pp. 401-403)	15 minutes		
	Total Time:	5 Days	6 Days	
	Lesson 3: How Can Maps Help Us Learn Abou	t Earth's Surfac	e?	
	Engage (pp. 404-405)	5 minutes		
	Explore/Explain: What is a Map? (pp. 406-		+5 minutes	
	409)	20 minutes	• Language SmArts (p.	
	• Evidence Notebook (p. 409)		409)	
	Explore/Explain: How Do You Read a Map?		+25 minutes	
	(pp. 410-414)		• Do the Math (pp.	
	• Language SmArts (p. 414)	35 minutes	412-413)	
		35 minutes	• Apply What You Know (p. 414)	
			• Evidence Notebook	
			(p. 414)	
	Explore/Explain: What Can Maps Show Us?			
	(pp. 415-418)	25 minutes		
	• Evidence Notebook (p. 418)	25 minutes		
	● Language SmArts (p. 418)			
	Hands-On Activity: Park Designer (pp. 419-	60 minutes		
	421)	(2 Days)		
	Elaborate: Take It Further (pp. 422-424)	10 minutes		
	Evaluate: Lesson Check (pp. 425-427)	15 minutes		
	Total Time:	6 Days	7 Days	
	Lesson 4: What Patterns Do Maps Show Us?		T	1
-	Engage (pp. 428-429)	5 minutes		
	Explore/Explain: By Land or By Sea (pp. 430-		+20 minutes	
	433) • Language SmArts (p. 431)	25 minutes	Apply What You	
	• Evidence Notebook (p. 431)		Know (p. 431)	
-	Explore/Explain: Can Maps Help Us See			
	Patterns? (pp. 434-439)		+15 minutes	
	• Evidence Notebook (p. 435)	35 minutes	Apply What You	
	• Language SmArts (p. 439)		Know (p. 438)	
	Hands-On Activity: Tracking Quakes (pp.	20		
	440-442)	30 minutes		
	Elaborate: Take It Further (pp. 443-444)		+5 minutes	
		15 minutes	 Apply What You 	
			Know (p. 443)	
	Evaluate: Lesson Check (pp. 445-447)	15 minutes		
	Total Days:	4 Days	5 Days	
-	You Solve It	Optional	+30 minutes	
	Unit 6 Performance Task (pp. 448-449)	Optional 20 minutes	+30 minutes	
	Unit 6 Review (pp. 450-452)	30 minutes		
-	Unit 6 Test (Assessment Guide) Performance-Based Assessment	30 minutes		
	(Assessment Guide)	Optional	+30 minutes	
	,	22 Dave	21 Dave	
1 1	Total Unit Days:	22 Days	31 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 7: Rock and Fossils			
Unit 7 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Do Rock Layers Change?			
Engage (pp. 456-457)	5 minutes		
Explore/Explain: One Layer at a Time (pp. 458-461) • Apply What You Know (p. 458) • Language SmArts (p. 461)	25 minutes	+5 minutes • Evidence Notebook (p. 461)	
Explore/Explain: Layer on Layer (pp. 462-467) • Do the Math (p. 463) • Evidence Notebook (p. 466)	40 minutes	+15 minutes • Language SmArts (p. 463)	
Hands-On Activity: Modeling How Rocks Can Form and Change (pp. 468-470)	30 minutes		
Explore/Explain: Not What It Used to Be (pp. 471-476) • Evidence Notebook (p. 475) • Language SmArts (p. 476)	30 minutes	+10 minutes • Apply What You Know (p. 471)	
Elaborate: Take It Further (pp. 477-478)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 479-481)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: What Do Fossils Tell Us About Env	ironments?		
Engage (pp. 482-483)	5 minutes		
Explore/Explain: Clues from the Past (pp. 484-485) • Evidence Notebook (p. 485) • Language SmArts (p. 485)	15 minutes		
Hands-On Activity: Old and New (pp. 486-487)	30 minutes		
Explore/Explain: Then and Now (pp. 488-491) • Evidence Notebook (p. 489)	25 minutes	+20 minutes • Language SmArts (p. 489) • Evidence Notebook (p. 489)	
Explore/Explain: Ancient Lands (pp. 492-494) • Do the Math (p.493) • Language SmArts (p. 494)	25 minutes	+5 minutes • Evidence Notebook (p. 493)	
Elaborate: Take It Further (pp. 495-496)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 497-499)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: What Are Some Patterns Fossils Sh	now Us?		
Engage (pp. 500-501)	5 minutes		

Hands-On Activity: Layer by Layer (pp. 502-504)	30 minutes		
Explore/Explain: Evidence of Environments (pp. 505-508) • Evidence Notebook (p. 507) • Language SmArts (p. 508)	35 minutes	+25 minutes • Apply What You Know (p. 508)	
Explore/Explain: More Changes (pp. 509-512) • Apply What You Know (p. 509) • Language SmArts (p. 512)	25 minutes	+5 minutes • Language SmArts (p. 511) • Evidence Notebook (p. 512)	
Elaborate: Take It Further Take It Further (pp. 513-514)	15 minutes		
Evaluate: Lesson Check (pp. 515-517)	15 minutes		
Total Time:	4 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 7 Performance Task (pp. 518-519)	Optional	+30 minutes	
Unit 7 Review (pp. 520-522)	30 minutes		
Unit 7 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	15 Days	23 Days	

		Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 8: Natural Reso	urces and Hazards			
Unit 8 Project		Optional	+60 minutes (2 Days)	
Lesson 1: What Nonrene	wable Resources Are	Used for Energ	gy?	
Engage (pp. 526-527)		5 minutes		
Explore/Explain: Materia	ls We Use (pp. 528-		+25 minutes	
533)		35 minutes	Apply What You	
• Language SmArts (p. 529)			Know (p. 530)	
Evidence Notebook (p. 53 Figure 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	•		• Do the Math (p. 532)	
Explore/Explain: Search a 539)	ina rina (pp. 534-			
• Language SmArts (p. 535)				
• Apply What You Know (p.		40 minutes		
• Evidence Notebook (p. 53	7)			
• Language SmArts (p. 539)				
Hands-On Activity: Catch	That Dirt (pp. 540-	30 minutes		
542)				
Elaborate: Take It Furthe	r (pp. 543-544)	Optional	+10 minutes	
Evaluate: Lesson Check (op. 545-547)	15 minutes		
	Total Time:	3 Days	4 Days	

5 / 540.540)			
Engage (pp. 548-549)	5 minutes		
Explore/Explain: Exploring Renewable		+5 minutes	
Resources (pp. 550-553)	20	• Language SmArts (p.	
• Evidence Notebook (p. 551)	20 minutes	551)	
		• Evidence Notebook	
Explore/Explain: Renewable Natural		(p. 553)	
Resources (pp. 554-561)		+5 minutes	
• Do the Math (pp. 558-559)	40 minutes	• Evidence Notebook	
• Apply What You Know (p. 560)	40 111111111111111111111111111111111111	(p. 555)	
• Language SmArts (p. 561)		(ρ. 555)	
Hands-On Activity: Running on Sunshine			
(pp. 562-566)	75 minutes		
Elaborate: Take It Further (pp. 567-568)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 569-571)	15 minutes	113 minutes	
Total Time:		6 Days	
Lesson 3: How Can People Reduce the Impa			
Engage (pp. 572-573)	5 minutes		
Explore/Explain: Land-Based Natural	2 //////		
Hazards (pp. 574-579)		+25 minutes	
• Do the Math (p. 577)	35 minutes	• Apply What You	
• Language SmArts (p. 577)	35 minutes	Know (pp. 574-575)	
• Evidence Notebook (p. 577)		(pp: 57 : 575)	
Explore/Explain: Reducing the Impacts of			
Land-Based Hazards (pp. 580-585)			
• Apply What You Know (p. 581)			
• Apply What You Know (p. 581)	70 minutes		
• Language SmArts (p. 583)	70111111111111		
• Evidence Notebook (p. 583)			
• Language SmArts (p. 585)			
Hands-On Activity: Reduce the Risk (pp.			
586-590)	35 minutes		
Elaborate: Take It Further (pp. 591-592)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 593-595)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 4: How Can People Reduce the Impa	ct of Water-Base	ed Hazards?	
Engage (pp. 596-597)	5 minutes		
Explore/Explain: Water-Based Natural		+25 minutes	
Hazards (pp. 598-603)	2E minutes	• Do the Math (p. 599)	
• Evidence Notebook (p. 601)	35 minutes	• Apply What You	
• Language SmArts (p. 603)		Know (p. 601)	
Explore/Explain: Reducing the Impacts of		+15 minutes	
Water-Based Hazards (pp. 604-611)	35 minutes	• Language SmArts (p.	
• Evidence Notebook (p. 609)		607)	
Hands-On Activity: Is It Safe? (pp. 612-614)	30 minutes		
Elaborate: Take It Further (pp. 615-616)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 617-619)	15 minutes		
Total Days:	3 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 8 Performance Task (pp. 620-621)	Optional	+30 minutes	
Unit 8 Review (pp. 622-624)	30 minutes		
Unit 8 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Ontional	120 minutes	
(Assessment Guide)	Optional	+30 minutes	

Total Unit Days:	17 Days	27 Days	

The following Pacing Guide includes changes you can consider in order to streamline the learning process for each lesson within each unit. However, you are the expert on what will work in your classroom, as such, we've left room for you to customize the recommendations to best suit your needs and schedule. The lesson and class day interval suggestions provided are based on 30-minute instructional periods. The "Core" instructional pathway is based on two to three, 30-minute instructional periods per week, and the "Comprehensive" instructional pathway is based on five, 30-minute instructional periods per week.

The curriculum designers have provided helpful tips of what assignments are best suited for the core and comprehensive pathways, and as such you may assign these particular pieces to assist with adhering to the science schedule in your classroom. Other alterations to the schedule may be made, such as assigning part of the lesson components as homework. "Language SmArts" and "Evidence Notebook" prompts, as well as the "Do the Math" activities, may be assigned for independent work that is completed outside of the Science classroom period. The many options you are able to choose from when planning is solely up to your discretion.

This tool may be used by those working solely with the Online Interactive Edition, those working solely with the printed edition, and those who use a hybrid approach, using pieces of both. The titles shown are referenced in both print and online editions, and the provided numbers in parentheses correspond to the pages of the print student edition.

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 1: Engineering Processes			
Unit 1 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Are Science and Math Used in	n Engineering?		
Engage (pp. 4-5)	5 minutes		
Explore/Explain: What is Engineering? (pp. 6-10) • Apply What You Know (p.6)	35 minutes	+20 minutes • Language Smarts (p. 10) • Evidence Notebook (p. 10)	
Explore/Explain: How Does Engineering Use Science? (pp. 11-14) • Language Smarts (p. 12)	45 minutes	+5 minutes • Evidence Notebook (p. 14)	
Hands-On Activity: Testing Straw Beams (pp. 15-18)	35 minutes		
Explore/Explain: Using Math and Measurement (pp. 19-20) • Do the Math (p. 20) • Evidence Notebook (p. 20)	20 minutes		
Elaborate: Take It Further (pp. 21-22)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 23-25)	15 minutes		
Total Time:	4 Days	6 Days	
Lesson 2: What Is the Design Process?			
Engage (pp. 26-27)	5 minutes		

Explore/Explain: Defining a Problem (pp. 28-33) • Evidence Notebook (p. 31) • Language SmArts (p. 33)	20 minutes	+5 minutes • Apply What You Know (p. 33)	
Hands-On Activity: Testing a Path with a Scale Model (pp. 34-37)	30 minutes		
Explore/Explain: Choosing the Best Solution (pp. 38-40) • Apply What You Know (p. 39) • Evidence Notebook (p. 39)	20 minutes	+5 minutes • Evidence Notebook (p. 34)	
Elaborate: Take It Further (pp. 41-42)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 43-45)	15 minutes		
Total Time:	3 Days	4 Days	
Lesson 3: How Does Technology Affect Socie	ety?	<u> </u>	
Engage (pp. 46-47)	5 minutes		
Explore/Explain: Improving Over Time (pp. 48-51) • Do the Math (pp. 50-51)	35 minutes		
 Evidence Notebook (p. 51) Language SmArts (p. 51) 	33 minutes		
Explore/Explain: Consequences (pp. 52-55) • Evidence Notebook (p. 55)	20 minutes	+15 minutes • Apply What You Know (p. 49)	
Hands-On Activity: Car Competition (pp. 56-59)	30 minutes		
Explore/Explain: Tradeoffs (pp. 60-62) • Evidence Notebook (p. 62)	20 minutes	+20 minutes • Apply What You Know (p. 62)	
Elaborate: Take It Further (pp. 63-64)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 65-67)	15 minutes		
Total Time:	4 Days	5 Days	
You Solve It	Optional	+30 minutes	
Unit 1 Performance Task (pp. 68-69)	Optional	+30 minutes	
Unit 1 Review (pp. 70-72)	30 minutes		
Unit 1 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	13 Days	22 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 2: Matter			
Unit 2 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Is Matter?			

Engage (pp. 76-77)	5 minutes		
Explore/Explain: Matter Is Everything (pp.		+15 minutes	
78-85)		 Apply What You 	
• Evidence Notebook (p. 79)	40 minutes	Know (p. 81)	
• Apply What You Know (p. 85)		• Language Smarts (p.	
		82)	
Hands-On Activity: How Much Matter Do	30 minutes		
You Have? (pp. 86-87) Explore/Explain: Energy Transfer (pp. 88-		+5 minutes	
94)		• Evidence Notebook	
• Do the Math (p. 89)	60 minutes	(p. 92)	
• Language SmArts (p. 91)		• Apply What You	
-anguage on a to (pr o -)		Know (p. 94)	
Elaborate: Take It Further (pp. 95-96)	Optional	+5 minutes	
Evaluate: Lesson Check (pp. 97-99)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: What Are Properties of Matter?	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	1
Engage (pp. 100-101)	5 minutes		
Hands-On Activity: What Affects the Rate			
of Dissolving? (pp. 102-105)	30 minutes		
Explore/Explain: So Many Properties (pp.		LEO maino de e	
106-113)		+50 minutes • Apply What You	
• Evidence Notebook (p. 109)	65 minutes	Know (p. 109)	
• Language SmArts (p. 111)		• Apply What You	
• Do the Math (p. 113)		Know (p. 111)	
Evidence Notebook (p. 113) Fundame (Fundame Mintures and Solutions)		+20 minutes	
Explore/Explain: Mixtures and Solutions (pp. 114-120)		• Apply What You	
• Evidence Notebook (p. 117)	35 minutes	Know (p. 119)	
,		• Language SmArts (p.	
		120)	
Elaborate: Take It Further (pp. 121-122)	Optional	+5 minutes	
Evaluate: Lesson Check (pp. 123-125)	15 minutes		
Total Time:	4 Days	6 Days	
Lesson 3: How Does Matter Change?			
Engage (pp. 126-127)	5 minutes		
Explore/Explain: Physical Changes (pp. 128-			
132)			
• Evidence Notebook (p. 129)	45 minutes		
• Do the Math (p. 131)			
• Language SmArts (p. 132)		.25	
Explore/Explain: Chemical Changes (pp.		+25 minutes • Apply What You	
136-142) • Evidence Notebook (p. 141)		Know (p. 137) – 5	
- Lindelice Notebook (p. 141)	30 minutes	hours for	
		observation	
		• Evidence Notebook	
		(p. 137)	
Explore/Explain: Conservation of Matter		+30 minutes	
(pp. 143-146)	20 minutes	 Apply What You Know (p. 145) 	
	20 111111111111111111111111111111111111	• Evidence Notebook	
		(p. 145)	
Elaborate: Take It Further (pp. 147-148)	Optional	+10 minutes	
		<u> </u>	İ

Evaluate: Lesson Check (pp. 149-151)	15 minutes		
Total Time:	4 Days	6 Days	
You Solve It	Optional	+30 minutes	
Unit 2 Performance Task (pp. 152-153)	Optional	+30 minutes	
Unit 2 Review (pp. 154-156)	30 minutes		
Unit 2 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Optional	+30 minutes	
(Assessment Guide)	Optional	+50 Illillutes	
Total Unit Days:	15 Days	25 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 3: Energy and Matter in Organisr	ns		
Unit 3 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Does Energy Get Transformed	d by Plants?		
Engage (pp. 160-161)	5 minutes		
Explore/Explain: Plant Growth (pp. 162-166) • Apply What You Know (p. 163) • Language SmArts (p. 165) • Do the Math (p. 166) • Evidence Notebook (p. 166)	75 minutes		
Hands-On Activity: Lights Out! (pp. 167-169)	30 minutes		
Explore/Explain: Getting Energy from Food (pp. 170-172) • Apply What You Know (p. 171) • Evidence Notebook (p. 172) • Language SmArts (p. 172)	35 minutes		
Elaborate: Take It Further (pp. 173-174)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 175-177)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 2: How Do Organisms Use Matter and			
Engage (pp. 178-179)	5 minutes		
Explore/Explain: Growth, Change, and Regrowth (pp. 180-183) • Language SmArts (p. 180) • Evidence Notebook (p. 182)	25 minutes	+5 minutes • Do the Math (p. 183)	
Hands-On Activity: What Was for Dinner? (pp. 184-187)	30 minutes		
Explore/Explain: Animal Energy (pp. 188-190) • Do the Math (p. 188) • Apply What You Know (p. 190)	55 minutes		

• Evidence Notebook (p. 190)			
• Language SmArts (p. 190)			
Elaborate: Take It Further (p. 191-192)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 193-195)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 3: How Do Organisms Interact?			
Engage (pp. 196-197)	5 minutes		
Explore/Explain: Living Things and Their Environment (pp. 198- 201) • Evidence Notebook (p. 199) • Language SmArts (p. 201)	35 minutes	+15 minutes • Apply What You Know (p. 199)	
Hands-On Activity: What's Out There? (pp. 202-204)	30 minutes		
Explore/Explain: Relationships in an Ecosystem (pp. 205-208) • Evidence Notebook (p. 208) • Language SmArts (p. 208)	60 minutes	+10 minutes • Do the Math (p. 206)	
Elaborate: Take It Further (p. 209-210)	15 minutes		
Evaluate: Lesson Check (pp. 211-213)	15 minutes		
Total Time:	5 Days	6 Days	
You Solve It	Optional	+30 minutes	
Unit 3 Performance Task (pp. 214-215)	Optional	+30 minutes	
Unit 3 Review (pp. 216-218)	30 minutes		
Unit 3 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	16 Days	24 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 4: Energy and Matter in Ecosyste	ms		
Unit 4 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Does Energy and Matter Mov	e Through Eco	systems?	
Engage (pp. 222-223)	10 minutes		
Explore/Explain: Moving Energy and Matter (pp. 224-227) • Evidence Notebook (p. 224) • Language SmArts (p. 227)	35 minutes		
Explore/Explain: Following Matter and Energy (pp. 228-231)	20 minutes	+20 minutes • Evidence Notebook (p. 231)	
Hands-On Activity: Modeling Matter Moving within an Ecosystem (pp. 232-234)	30 minutes		

 Explore/Explain: At the Top (pp. 235-238) Do the Math (p. 235) Language SmArts (p. 237) Evidence Notebook (p. 238) 	30 minutes	+10 minutes • Apply What You Know (p. 238)	
Elaborate: Take It Further (pp. 239-240)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 241-243)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: How Do Organisms Change Their E	cosystems?		
Engage (pp. 244-245)	5 minutes		
Explore/Explain: Redecorating Environments (pp. 246-249) • Language SmArts (p. 249) • Evidence Notebook (p. 249)	25 minutes	+5 minutes • Evidence Notebook (p. 259)	
Explore/Explain: Introduced and Invasive Species (pp. 250-254) • Language SmArts (p. 254)	30 minutes	+10 minutes • Do the Math (p. 253)	
Hands-On Activity: Invasion! (pp. 255-258)	30 minutes		
Elaborate: Take It Further (pp. 259-260)	Optional	+25 minutes	
Evaluate: Lesson Check (pp. 261-263)	15 minutes		
Total Time:	3 Days	4 Days	
You Solve It	Optional	+30 minutes	
Unit 4 Performance Task (pp. 264-265)	Optional	+30 minutes	
Unit 4 Review (pp. 266-268)	30 minutes		
Unit 4 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total:	9 Days	16 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing	
Unit 5: Systems in Space				
Unit 5 Project	Optional	+60 minutes (2 Days)		
Lesson 1: How Does Gravity Affect Matter on Earth?				
Engage (pp. 272-273)	5 minutes			
Explore/Explain: Is Earth a Sphere? (pp. 274-278) • Apply What You Know (p. 275) • Evidence Notebook (p. 275) • Do the Math (p. 278) • Language SmArts (p. 278)	50 minutes			
Hands-On Activity: A Trip Around the World (pp. 279-281)	30 minutes			
Explore/Explain: What is Gravity? (pp. 282-286)	40 minutes	+5 minutes		

• Language SmArts (p. 348)			
Hands-On Activity: Find the Light (pp. 349-351)	30 minutes		
Elaborate: Take It Further (pp. 352-354)	Optional	+20 minutes	
Evaluate: Lesson Check (pp. 355-357)	15 minutes		
Total Days:	4 Days	7 Days	
You Solve It	Optional	+30 minutes	
Unit 5 Performance Task (pp. 358-359)	Optional	+30 minutes	
Unit 5 Review (pp. 360-362)	30 minutes		
Unit 5 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total Unit Days:	19 Days	30 Days	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 6: Earth's Systems			
Unit 6 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Are Earth's Major Systems?			
Engage (pp. 366-367)	5 minutes		
Explore/Explain: Systems and Cycles: Geospheres and Atmosphere (pp. 368-372) • Evidence Notebook (p. 369) • Language SmArts (p. 371)	35 minutes		
Explore/Explain: Atmosphere: The Big Picture (pp. 373-374)	10 minutes	+5 minutes • Do the Math (p. 373)	
Hands-On Activity: Modeling Earth's Layers (pp. 375-377)	35 minutes		
Explore/Explain: Systems and Cycles: Hydrosphere and Biosphere (pp. 378-382) • Evidence Notebook (p. 380) • Language SmArts (p. 381)	30 minutes	+10 minutes • Apply What You Know (p. 379) • Language SmArts (p. 380)	
Elaborate: Take It Further (pp. 383-384)	Optional	+10 minutes	
Evaluate: Lesson Check (pp. 385-387)	15 minutes		
Total Time:	3 Days	4 Days	
Lesson 2: How Do Earth's Systems Interact?			
Engage (pp. 388-389)	5 minutes		
Explore/Explain: How the Atmosphere and Hydrosphere Interact (pp. 390-393) • Do the Math (p. 391)	20 minutes	+5 minutes • Evidence Notebook (p. 390) • Apply What You Know (p. 393)	

	Hands-On Activity: What Happens during			
	the Water Cycle? (pp. 394-395)	30 minutes		
	Explore/Explain: Always Changing (pp. 396-		110 minutos	
	399)	20 minutes	+10 minutes • <i>Apply What You</i>	
	• Language SmArts (p. 397)	20 111111111111111111111111111111111111	Know (p. 396)	
	• Evidence Notebook (p. 398)		mon (prese)	
	Explore/Explain: The Atmosphere,			
	Geosphere, and Hydrosphere Shape Earth	25		
	(pp. 400-403)	25 minutes		
	• Evidence Notebook (p. 401)			
	• Language SmArts (p. 403) Explore/Explain: How the Biosphere,			
	Geosphere, and Atmosphere Interact (pp.	15 minutes		
	404-406)	15 minutes		
	Elaborate: Take It Further (pp. 407-408)	Optional	+10 minutes	
	Evaluate: Lesson Check (pp. 409-411)	15 minutes		
	Total Time:	4 Days	5 Days	
	Lesson 3: What Is the Role of the Oceans in I		-	
	Engage (pp. 412-413)	5 minutes		
	Explore/Explain: All About Oceans (pp.	3 minutes	+10 minutes	
	414-417)		• Do the Math (p. 414)	
	• Language SmArts (p. 416)	40 minutes	Apply What You	
	<i>,</i> , ,		Know (p. 415)	
	Hands-On Activity: How Do Oceans Shape	30 minutes		
	Coastlines? (pp. 418-419)	30 minutes		
	Explore/Explain: Oceans Affect Landforms			
	(pp. 420-423)	25 minutes		
	• Language SmArts (p. 421)			
	Evidence Notebook (p. 422) Fundary (Fundain) Occasio Affort Climate		110 minutes	
	Explore/Explain: Oceans Affect Climate (pp. 424-428)		+10 minutes • Evidence Notebook	
	(pp. 424-428)	35 minutes	(p. 425)	
		33	• Language SmArts (p.	
			427)	
	Explore/Explain: Oceans Affect Climate			
	(pp. 429-432)			
	• Evidence Notebook (p. 429)	35 minutes		
	• Apply What You Know (p. 430)			
	Language SmArts (p. 431) Flaborato: Take It Further (pp. 433, 434)	0 11 1	.40	
	Elaborate: Take It Further (pp. 433-434)	Optional	+10 minutes	
	Evaluate: Lesson Check (pp. 435-437)	15 minutes		
	Total Time:	5 Days	6 Days	
	You Solve It	Optional	+30 minutes	
	Unit 3 Performance Task (pp. 438-439)	Optional	+30 minutes	
	Unit 3 Review (pp. 440-442)	30 minutes		
	Unit 3 Test (Assessment Guide)	30 minutes		
	Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
	Total Unit Days:	14 Days	22 Days	
<u></u>	Total Offic Days.	I Days	LL Duys	

	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
Unit 7: Earth and Human Activity			
Unit 7 Project	Optional	+60 minutes (2 Days)	
Lesson 1: How Does Resources Use Affect Ea	arth?		
Engage (pp. 446-447)	10 minutes		
Explore/Explain: Earth's Resources (pp. 448-451) • Evidence Notebook (p. 451) • Language SmArts (p. 451)	60 minutes		
Explore/Explain: Earth and Human Activity (pp. 452-459) • Do the Math (p. 454) • Language SmArts (p. 459) • Evidence Notebook (p. 459)	60 minutes	+10 minutes • Apply What You Know (p. 457)	
Hands-On Activity: A Solution for All This Pollution! (pp. 460-462)	30 minutes		
Elaborate: Take It Further (pp. 239-240)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 241-243)	15 minutes		
Total Time:	6 Days	7 Days	
Lesson 2: How Can People Protect the Enviro	onment?		
Engage (pp. 468-469)	5 minutes		
Explore/Explain: What Are the Three Rs? (pp. 470-479) • Language SmArts (p. 479)	30 minutes	+30 minutes • Do the Math (p. 476) • Apply What You Know (p. 477) • Evidence Notebook	
		(p. 479)	
Explore/Explain: Going Green (pp. 480-485) • Apply What You Know (pp. 483)	35 minutes	+10 minutes • Language SmArts (p. 481) • Evidence Notebook (p. 485)	
Hands-On Activity: Pocket Park (pp. 486-490)	60 minutes	(p. 100)	
Elaborate: Take It Further (pp. 491-492)	Optional	+25 minutes	
Evaluate: Lesson Check (pp. 493-495)	15 minutes		
Total Time:	4 Days	6 Days	
You Solve It	Optional	+30 minutes	
Unit 4 Performance Task (pp. 496-497)	Optional	+30 minutes	
Unit 4 Review (pp. 498-500)	30 minutes		
Unit 4 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment (Assessment Guide)	Optional	+30 minutes	
Total:	12 Days	20 Days	