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. We've included room in this guide 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, enabling you to make these assignments in a way that will 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 . When planning, you are able to choose at your discretion from the many scheduling options.

This tool may be used by those working solely with the Online Interactive Edition, those working solely with the print 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 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	ıs?		
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	is?		
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-		+5 minutes	
34)	20 minutes	• Evidence Notebook	
,		(p. 34)	
Hands-On Activity: Design It! (pp. 35–37)	30 minutes		
Elaborate: Take It Further (p. 38–40)			
<ul> <li>Elaborate: Take It Further • Do the Math (p. 40)</li> </ul>	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		+15 minutes	
(pp. 49–51)	20 minutes	Apply What You	
• Evidence Notebook (p. 51)		Know (p. 49)	
Explore/Explain: Getting Better (pp. 52–54)		+15 minutes	
• Evidence Notebook (p. 54)	20 minutes	Apply What You	
• Language SmArts (p. 54)		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	Optional	+30 minutes	
(Assessment Guide)			
Total Unit Days:	12 Days	20 Days	
	1	T T	
		C C	
		Comprehensive Path Allotted Time	C
		pr	ust
	≥	≥eh	tor
	l of o	lot en	Custom Pacing
	Cor	ısiv	Jac
	e l	e l	Ξi
	Core Path Allotted Time	hensive Path Allotted Time	σq
	e : <del>i</del>	. <del>.</del> .	
Unit 2: Energy			
Unit 2 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Is Energy?		<u>_</u>	
Engage (pp. 68–69)	5 minutes		
Explore/Explain: Energy Is All Around (pp.		+10 minutes	
70–75)		• Apply What You	
• Language SmArts (p. 71)	45 minutes	Know (p. 71)	
• Evidence Notebook (p. 73)		• Do the Math (p. 75)	
• Apply What You Know (p. 75)		20 11.0 11.1411 (p. 73)	
Hands-On Activity: Light the Bulb (pp. 76–	30 minutes		
etailed Pacing Guide	2 of 13		Grade 4

	WENSIONS C	INADE 4 DETAILED PAC	
77)			
Explore/Explain: Energy Transfer (pp. 78–		+5 minutes	
82)	40 minutes	Evidence Notebook	
• Language SmArts (p. 79)		(p. 79)	
• Language SmArts (p. 81)			
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?		•	
Engage (pp. 88–89)	5 minutes		
Explore/Explain: Heat (pp. 90–94)		+5 minutes	
• Language SmArts (p. 93)	25 minutes	Evidence Notebook	
		(p. 93)	
Explore/Explain: Here Comes the Sun (pp.		+5 minutes	
95–98)	20 minutes	• Language SmArts (p.	
• Evidence Notebook (p. 97)		97)	
Hands-On Activity: Design and Test a Solar	30 minutes		
Cooker (pp. 99–101)	30 1111114123		
Explore/Explain: Seeing Sound (pp. 102–		+15 minutes	
108)		Evidence Notebook	
• Do the Math (p. 106)	25	(p. 102)	
	35 minutes	Apply What You     Know (n. 103)	
		Know (p. 103) • Apply What You	
		Know (p. 107)	
Elaborate: Take It Further (pp. 109–110)	10 minutes	тинет (р. 201)	
Evaluate: Lesson Check (pp. 111–113)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Do Collisions Show Energy?	0 2 0,70	0.2,0	
Engage (pp. 114–115)	5 minutes		
Explore/Explain: Things That Move Have	3 minutes	+20 minutes	
Energy (pp. 116–121)		• Apply What You	
• Evidence Notebook (p. 120)	25 minutes	Know (p. 118)	
• Language SmArts (p. 120)		• Apply What You	
- Language Similes (p. 120)		Know (p. 120)	
Hands-On Activity: Test It! Stored Energy in	20		
a Rubber Band (pp. 122–124)	30 minutes		
Explore/Explain: Wonderful Springs (pp.			
125–127)	20 minutes		
• Language SmArts (p. 127)			
Explore/Explain: Collisions (pp. 128–130)		+5 minutes	
• Language SmArts (p. 128)	20 minutes	Evidence Notebook	
● Apply What You Know (p. 130)		(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	
	t	l	

HMH SCIENCE DIMENSIONS GRADE 4 DETAILED PACING GUIDE					
Total Unit Days:	16 Days	24 Days			
	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing		
Unit 3: Waves and Information Transf	fer				
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.	30 minutes				
146–148)	30 1111114163				
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.	15 minutes				
172–173) 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 (pp. 195–196)	10 minutes				
Evaluate: Lesson Check (pp. 197–199)	15 minutes				
Total Time:	5 Days	6 Days			
Lesson 3: How Is Information Transferred from	om Place to Pla	ice?			
Engage (pp. 200–201)	5 minutes				

Explore/Explain: History of Information Transfer (pp. 202–207)  • Language SmArts (p. 202)  • Language SmArts (p. 204)  • Evidence Notebook (p. 206)	30 minutes	+10 minutes • Apply What You 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 (pp. 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)  Performance-Based Assessment	30 minutes		
(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			
Unit 4 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Are Some Plant Parts and Ho	ow Do They Fu	nction?	
Engage (pp. 232–233)	10 minutes		
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		

HMH SCIENCE DI	MENSIONS G	RADE 4 DETAILED PA	ACING GUIDE
• Language SmArts (p. 248)			
Elaborate: Take It Further (pp. 249–250)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 251–253)	15 minutes	123 111114163	
Total Time:	5 Days	6 Days	
Lesson 2: How Do Plants Grow and Reprodu	ce?		
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 11111111111111111	(p. 259)	
• Apply What You Know (p. 259)		(p. 255)	
Explore/Explain: What If Plants Don't		+10 minutes	
Produce Flowers? (pp. 261–264)	30 minutes	• Apply What You	
• Evidence Notebook (p. 264)		Know (p. 261)	
• Language SmArts (p. 264)		(p. 202)	
Explore/Explain: On the Move (pp. 265–			
267)	25 minutes		
• Evidence Notebook (p. 267)			
• 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. 273–275)	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	
· · · · · · · · · · · · · · · · · · ·	•	,	
	Core Path Allotted Time	Comprehensive Path Allotted Time	Custom Pacing
	.,	Path Time	<u>ਲ</u>
Unit 5: Animal Structure and Function	1		
Unit 5 Project	Optional	+60 minutes (2 Days)	
Lesson 1: What Are Some External Structur	es of Animals?	<del></del>	
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)			
Explore/Explain: Inspired by Nature (pp. 292–295)	35 minutes	+10 minutes • Apply What You	

	111211313113	MADE T DETAILED I	7.011.0 001.02
• Evidence Notebook (p. 294)		Know (p. 295)	
• Language SmArts (p. 295)			
Explore/Explain: Inspired by Nature (pp.		. 25	
292–295)	25 minutes	+25 minutes	
• Evidence Notebook (p. 294)	25 minutes	Apply What You     (7, 205)	
• 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	
	<u> </u>	113 11111111111111	
Evaluate: Lesson Check (pp. 301–303)	15 minutes		
Total Time:	4 Days	5 Days	
Lesson 2: What Are Some Internal Structure	s of Animals?		
Engage (pp. 304–305)	5 minutes		
Explore/Explain: Pumping Parts (pp. 306–	3 11111141113	+5 minutes	
310)		• Do the Math (p. 308)	
• Evidence Notebook (p. 310)	30 minutes		
Evidence Notebook (p. 510)		• Language SmArts (p. 309)	
Hands-On Activity: Pump It Up! (pp. 311–		303)	
313)	30 minutes		
· · · · · · · · · · · · · · · · · · ·		+15 minutes	
Explore/Explain: Food for Thought (pp.			
314–318)	25	Evidence Notebook     (2.216)	
• Language SmArts (p. 318)	35 minutes	(p. 316)	
		• Apply What You	
Elaborate: Take It Further (pp. 319–320)	45	Know (p. 318)	
, ,	15 minutes		
Evaluate: Lesson Check (pp. 321–323)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Do Senses Work?	· · · · · · · · · · · · · · · · · · ·	•	
	5 minutes		<u> </u>
Engage (pp. 324–325)	5 minutes		
Explore/Explain: Touchy, Feely (pp. 326–			
329)	30 minutes		
• Language SmArts (p. 328)			
• Evidence Notebook (p. 329)			
Hands-On Activity: Touch Test (pp. 330–	30 minutes		
332)	00		
Explore/Explain: Is That Something I Want			
to Eat? (pp. 333–335)		+10 minutes	
• Apply What You Know (p. 333)	30 minutes	<ul> <li>Apply What You</li> </ul>	
• Evidence Notebook (p. 335)		Know (p. 335)	
• Language SmArts (p. 335)			
Explore/Explain: Sights and Sounds (pp.		+10 minutes	
336–338)	20 minutes	• Apply What You	
• Language SmArts (p. 337)	20 minutes	• Apply What You Know (p. 338)	
• Evidence Notebook (p. 338)		κποw (μ. 330)	
Elaborate: Take It Further (pp. 339–340)		+10 minutes	
	10 minutes	<ul> <li>Language SmArts</li> </ul>	
		(p. 340)	
Evaluate: Lesson Check (pp. 341–343)	15 minutes		
Total Time:	4 Days	5 Days	
		-	
You Solve It	Optional	+30 minutes	
Linit C Doutouppers Table / a. 244 245	0		
Unit 5 Performance Task (pp. 344–345)	Optional	+30 minutes	
Unit 5 Performance Task (pp. 344–345) Unit 5 Review (pp. 346–348) Unit 5 Test (Assessment Guide)	Optional 30 minutes 30 minutes	+30 minutes	

#### HMH SCIENCE DIMENSIONS GRADE 4 DETAILED PACING GUIDE Performance-Based Assessment Optional +30 minutes (Assessment Guide) 15 Days **Total Unit 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 Sur	face?	T	
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	ı	<u></u>	
Engage (pp. 378–379)  Explore/Explain: Organisms and Environments (pp. 380–385)  • Evidence Notebook (p. 382)  • Language SmArts (p. 385)	5 minutes 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)  • Evidence Notebook (p. 398)	45 minutes		

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	•	•	
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)		<ul> <li>Do the Math (pp.</li> </ul>	
• Language SmArts (p. 414)		412–413)	
	35 minutes	Apply What You	
		Know (p. 414)	
		• Evidence Notebook (p. 414)	
Explore/Explain: What Can Maps Show Us?		(P· 7±7)	
(pp. 415–418)			
• 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?			
Engage (pp. 428–429)	5 minutes		
Explore/Explain: By Land or By Sea (pp. 430–		+20 minutes	
433)	25 minutes	• Apply What You	
• Language SmArts (p. 431)	23	Know (p. 431)	
• Evidence Notebook (p. 431)		" ,	
Explore/Explain: Can Maps Help Us See		+15 minutes	
Patterns? (pp. 434–439)	35 minutes	Apply What You	
Evidence Notebook (p. 435)      Annual Control (p. 430)		Know (p. 438)	
Language SmArts (p. 439)  Hands-On Activity: Tracking Quakes (pp.			
440–442)	30 minutes		
Elaborate: Take It Further (pp. 443–444)		+5 minutes	
Elaborate. Take it l'aither (pp. 445-444)	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	+30 minutes	
Unit 6 Review (pp. 450–452)	30 minutes		
Unit 6 Test (Assessment Guide)	30 minutes		
Performance-Based Assessment	Optional	+30 minutes	
(Assessment Guide)	Optional	150 minutes	
Total Unit Days:	22 Days	31 Days	

HMH SCIENCE DIMENSIONS GRADE 4 DETAILED PACING GUIDE				
	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?	Optional	+00 minutes (2 Days)		
	Fit	T		
Engage (pp. 456–457)  Explore/Explain: One Layer at a Time (pp.	5 minutes			
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 And		-		
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 S		<u> 1</u>		
Engage (pp. 500–501)	5 minutes			
3-0- W.F /	10 -410	1		

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 (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 Resources and Hazards					
Unit 8 Project	Optional	+60 minutes (2 Days)			
Lesson 1: What Nonrenewable Resources Are	Used for Energ	gy?			
Engage (pp. 526–527)	5 minutes				
Explore/Explain: Materials We Use (pp. 528–533)  • Language SmArts (p. 529)  • Evidence Notebook (p. 531)	35 minutes	+25 minutes • Apply What You Know (p. 530) • Do the Math (p. 532)			
Explore/Explain: Search and Find (pp. 534–539)  • Language SmArts (p. 535)  • Apply What You Know (p. 537)  • Evidence Notebook (p. 537)  • Language SmArts (p. 539)	40 minutes				
Hands-On Activity: Catch That Dirt (pp. 540–542)	30 minutes				
Elaborate: Take It Further (pp. 543–544)	Optional	+10 minutes			
Evaluate: Lesson Check (pp. 545–547)	15 minutes				
Total Time:	3 Days	4 Days			
Lesson 2: What Renewable Resources Are Used for Energy?					

Engage (pp. 548–549)	5 minutes		
Explore/Explain: Exploring Renewable		+5 minutes	
Resources (pp. 550–553)		<ul> <li>Language SmArts (p.</li> </ul>	
• Evidence Notebook (p. 551)	20 minutes	551)	
		• Evidence Notebook	
		(p. 553)	
Explore/Explain: Renewable Natural			
Resources (pp. 554–561)		+5 minutes	
• Do the Math (pp. 558–559)	40 minutes	Evidence Notebook	
• Apply What You Know (p. 560)	40 11111141113	(p. 555)	
• Language SmArts (p. 561)		(p. 555)	
Hands-On Activity: Running on Sunshine			
, -	75 minutes		
(pp. 562–566)	Outing of	.45	
Elaborate: Take It Further (pp. 567–568)	Optional	+15 minutes	
Evaluate: Lesson Check (pp. 569–571)	15 minutes		
Total Time:	5 Days	6 Days	
Lesson 3: How Can People Reduce the Impact		Hazards?	
Engage (pp. 572–573)	5 minutes		
Explore/Explain: Land-Based Natural			
Hazards (pp. 574–579)		+25 minutes	
• Do the Math (p. 577)	35 minutes	<ul> <li>Apply What You</li> </ul>	
• Language SmArts (p. 577)		Know (pp. 574–575)	
• Evidence Notebook (p. 577)			
Explore/Explain: Reducing the Impacts of			
Land-Based Hazards (pp. 580–585)			
• Apply What You Know (p. 581)			
• Apply What You Know (p. 583)	70 minutes		
• Language SmArts (p. 583)			
• 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	110 11111111111111111	
Total Time:		F Dave	
	4 Days	5 Days	
Lesson 4: How Can People Reduce the Impact		d Hazards?	
Engage (pp. 596–597)	5 minutes	.05	
Explore/Explain: Water-Based Natural		+25 minutes	
Hazards (pp. 598–603)	35 minutes	• Do the Math (p. 599)	
• Evidence Notebook (p. 601)		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	<ul> <li>Language SmArts (p.</li> </ul>	
• 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			
(Assessment Guide)	Optional	+30 minutes	
(, issessificate datac)			

HMH SCIENCE DIMENSIONS GRADE 4 DETAILED PACING GUIDE						
Total Unit Days:	17 Days	27 Days				