



Pacing Guide – Kindergarten Harcourt Science

The expectation is at least 30 min. 2 x week

Month	Topics	Harcourt Pacing	Grade Level Indicators	What to assess?	ELA Focus
August - September	Ready, Set, Science Lesson 1: Using Our Senses to Observe p. 8 – 9 Big Book p. 2	2 days	All Scientific Inquiry: reoccurring throughout the year as appropriate SI 1. Ask "what if" questions. SI 2. Explore and pursue student-generated "what if" questions. SI 3. Use appropriate safety procedures when completing scientific investigations. SI 4. Use the five senses to make observations about the natural world. SI 5. Draw pictures that correctly portray features of the item being described. SI 6. Recognize that numbers can be used to count a collection of things. SI 7. Use appropriate tools and simple equipment/instruments to safely gather scientific data (e.g., magnifiers and other appropriate tools). SI 8. Measure the lengths of objects using non-standard methods of measurement (e.g., teddy bear counters and pennies). SI 9. Make pictographs and use them to describe observations and draw conclusions. SI 10. Make new observations when people give different descriptions for the same thing. SWOK 1. Recognize that scientific investigations involve asking open-ended questions. (How? What if?) SWOK 2. Recognize that people are more likely to accept your ideas if you can give good reasons for them. SWOK 3. Interact with living things and the environment in ways that promote respect. SWOK 4. Demonstrate ways science is practiced by people everyday (children and adults).	<ul style="list-style-type: none"> ❖ Identify and describe the five senses ❖ Identify science tools ❖ Asks and explores "what if" questions ❖ Make observations ❖ Work safely 	
	Ready, Set, Science Lesson 2: Using Science Inquiry Skills p. 10 – 11 Big Book p. 3	2 days			
	Ready, Set, Science Lesson 3: Using Science Tools p. 12 – 13 Big Book p.4	2 days			
September - October	Chapter 5 – Weather and the Seasons Lesson 1: What is Weather? p. 168 – 175 Big Book p. 52 – 54	5 days	ESS 4. Observe and describe day-to-day weather changes (e.g., today is hot, yesterday we had rain).	<ul style="list-style-type: none"> ❖ Make observations ❖ Draw pictures that portray fall features. ❖ Describe seasonal changes in weather ❖ Use vocabulary 	Sequence RP 7, 8, 9 AV 1 C 1, 3 IT 2, 4
	Chapter 5 – Weather and the Seasons Lesson 3: How Does Weather Change with the Seasons? Fall	7 days fall	ESS 3. Explore that sometimes change is too fast to see and sometimes change is too slow to see. ESS 5. Observe and describe seasonal changes in weather. SI 5. Draw pictures that correctly portray features of the item being described. SI 9. Make pictographs and use them to describe observations and draw conclusions.		



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	p. 182 – 195 Big Book p.57 – 62			<ul style="list-style-type: none"> ❖ Describe and sort objects by properties ❖ Use vocabulary - solid, liquid, gas ❖ Work with partner/team 	C 1, 3 IT 2, 4
	Chapter 1 – The World Around Us Lesson 1: What is Matter? p. 24 – 29 Big Book p. 6-7	5 days	PS3. Describe and sort objects by one or more properties (e.g., size, color and shape).		Make Predictions RP 5, 9 AV 1 R 3 C 1,3
	Chapter 1 – The World Around Us Lesson 2: How Can Matter Be Sorted? p. 30 – 39 Big Book p. 8 – 11	5 days	PS1. Demonstrate that objects are made of parts (e.g., toys, chairs). PS 2. Examine and describe objects according to the materials that make up the object (e.g., wood, metal, plastic and cloth). PS3. Describe and sort objects by one or more properties (e.g., size, color and shape). SI 4. Use the five senses to make observations about the natural world.		Early Literacy: Concepts of Print RP 1, 3, 6, 9 AV 1 C 1,3
October - November	Chapter 8 – Plants All Around Lesson 1: What Are Plants Like? p. 262 – 269 Big Book p. 82 – 84	5 days	LS 4. Investigate variations that exist among individuals of the same kind of plant or animal.	<ul style="list-style-type: none"> ❖ Follow procedure ❖ Make observations ❖ Use vocabulary ❖ Draw and label diagrams ❖ Understand the big idea ❖ Compare and sort animals 	Find Details RP 9 AV 1 C 1, 3 IT 3
	Chapter 8 – Plants All Around Lesson 3: How Do Plants Grow and Change? p. 276 – 283 Big Book p. 87 - 89	5 days	LS 3. Describe how plants and animals usually resemble their parents. LS 4. Investigate variations that exist among individuals of the same kind of plant or animal.		Sequence RP 4, 7, 9 AV 1 R 4 C 1, 3 IT 2

Science Benchmarks - KEY

Earth and Space Science – ESS
Life Science – LS
Physical Science – PS
Science and Technology – ST
Scientific Inquiry – SI
Scientific Ways of Knowing – SWOK



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November	Chapter 7 – Animals A to Z Lesson 2: What Are Animals Like? p. 232 – 239 Big Book 72 – 74	5 days	LS 2. Discover that stories (e.g., cartoons, movies, comics) sometimes give plants and animals characteristics they really do not have (e.g., talking flowers).		Early Literacy: Concepts of Print RP 2, 9 AV 1 C 1, 3, 4
	Chapter 7 – Animals A to Z Lesson 3: What Do Animals Need? p. 240 – 247 Big Book p. 75 – 77	3 days	LS 5. Investigate observable features of plants and animals that help them live in different kinds of places.		
November - December	Chapter 5 – Weather and the Seasons Lesson 2: How Can We Measure Weather? p. 176 – 181 Big Book p. 55 – 56	3 days	ESS 4. Observe and describe day-to-day weather changes (e.g., today is hot, yesterday we had rain). SI 7. Use appropriate tools and simple equipment/instruments to safely gather scientific data (e.g., magnifiers and other appropriate tools).	<ul style="list-style-type: none"> ❖ Follow procedures ❖ Teamwork ❖ Draw and label diagrams ❖ Work safely ❖ Sequence order of the seasons 	Make Predictions RP 5,9 AV 1 C 1, 3 IT 1
	Chapter 5 – Weather and the Seasons Lesson 3: How Does Weather Change with the Seasons? Winter p. 182 – 195 Big Book p.57 – 62	7 days winter	ESS 3. Explore that sometimes change is too fast to see and sometimes change is too slow to see. ESS 5. Observe and describe seasonal changes in weather. SI 5. Draw pictures that correctly portray features of the item being described. SI 9. Make pictographs and use them to describe observations and draw conclusions.		Early Literacy: Concepts of Print RP 1, 2, 3, 9 AV 1 C 1, 3 IT 2, 4

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December - January	Chapter 4 – Our Earth Lesson 1: Where is Life on Earth? p. 132 – 139 Big Book p. 40 – 42	5 days	SI 1. Ask “what if” questions.	<ul style="list-style-type: none"> ❖ Teamwork ❖ Make observations ❖ Classify ❖ Make predictions ❖ Use vocabulary – sink, float 	Make Predictions RP 5, 9 AV 1 C 1, 3
	Chapter 4 – Our Earth Lesson 3: What is Water Like? p. 148 – 153 Big Book p. 46 – 47	3 days	SWOK 2. Recognize that people are more likely to accept your ideas if you can give good reasons for them.		Early Literacy: Concepts of Print RP 1, 2, 3, 9 AV 1 C 1, 3
January - February	Chapter 7 – Animals A to Z Lesson 1: What are Living and Nonliving Things? p. 226 – 231 Big Book p. 70 – 71	3 days	LS 1. Explore differences between living and non-living things (e.g., plant-rock). SI 3. Use appropriate safety procedures when completing scientific investigations.	<ul style="list-style-type: none"> ❖ Classify living/nonliving things ❖ Teamwork ❖ Stay on Task ❖ Understand the big idea ❖ Make observations ❖ Use vocabulary ❖ Draw, label, and compare diagrams 	Main Idea and Details RP 1, 8, 9 AV 1 C 1, 3 IT 3
	Chapter 6 – Up the Sky Lesson 1: What Can We See in the Day Sky? p. 204 – 209 Big Book p. 64 - 65	3 days	ESS1. Observe that the sun can be seen only in the daytime, but the moon can be seen sometimes at night and sometimes during the day.		Make Predictions RP 5, 9 AV 1 C 1, 3

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	Chapter 6 – Up the Sky Lesson 2: What Can We See in the Night Sky? p. 210 – 217 Big Book p. 66 - 68	5 days	ESS1. Observe that the sun can be seen only in the daytime, but the moon can be seen sometimes at night and sometimes during the day.		Early Literacy: Concepts of Print RP 1, 3, 9 AV 1 C 1, 3, 6
February - March	Chapter 5 – Weather and the Seasons Lesson 3: How Does Weather Change with the Seasons? Spring p. 182 – 195 Big Book p.57 – 62	7 days spring	ESS 3. Explore that sometimes change is too fast to see and sometimes change is too slow to see. ESS 5. Observe and describe seasonal changes in weather. SI 5. Draw pictures that correctly portray features of the item being described. SI 9. Make pictographs and use them to describe observations and draw conclusions.	<ul style="list-style-type: none"> ❖ Sequence order of the seasons ❖ Make observations 	Early Literacy: Concepts of Print RP 1, 2, 3, 9 AV 1 C 1, 3 IT 2, 4
March - April	Chapter 7 – Animals A to Z Lesson 4: How Do Animals Grow and Change? p. 248 – 255 Big Book p. 78 - 80	5 days	LS 3. Describe how plants and animals usually resemble their parents. LS 4. Investigate variations that exist among individuals of the same kind of plant or animal.	<ul style="list-style-type: none"> ❖ Make observations ❖ Sequence ❖ Describe and order stages of animal's life cycle 	Sequence RP 7, 9 AV 1 C 1, 3
March - April	Chapter 3 – On the Move Lesson 1: How Do Things Move? p. 96 – 103 Big Book p. 29 – 31	5 days	PS 4. Explore that things can be made to move in many different ways such as straight, zigzag, up and down, round and round, back and forth, or fast and slow.	<ul style="list-style-type: none"> ❖ Use vocabulary ❖ Make predictions ❖ Work safely ❖ Teamwork ❖ Make a model ❖ Classify using magnets 	Cause and Effect RP 9 AV 1 C 1, 2, 3

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April - May	Chapter 3 – On the Move Lesson 2 How Can We Change Motion? p. 104 – 109 Big Book p. 32 – 33	3 days	PS 5. Investigate ways to change how something is moving (e.g., push, pull).			Early Literacy: Concepts of Print RP 1, 2, 3, 9 AV 1 C 1, 3
	Chapter 3 – On the Move Lesson 3 How Can Magnets Move Objects? p. 110 – 117 Big Book p. 34 – 36	5 days	PS 5. Investigate ways to change how something is moving (e.g., push, pull). SI 8. Measure the lengths of objects using non-standard methods of measurement (e.g., teddy bear counters and pennies).			Find the Main Idea RP 9 AV 1 C 1, 3 IT 3
April - May	Chapter 8 – Plants All Around Lesson 2: What Do Plants Need? p. 270 – 275 Big Book p. 85 - 86	3 days	LS 5. Investigate observable features of plants and animals that help them live in different kinds of places.	<ul style="list-style-type: none"> ❖ Make predictions ❖ Follow procedure ❖ Make observations ❖ Draw and label diagrams ❖ Compare ❖ Use vocabulary ❖ Understand the big idea 	Cause and Effect RP 9 AV 1 C 1, 3	
	Chapter 8 – Plants All Around Lesson 3: How Do Plants Grow and Change? p. 276 – 283 Big Book p. 87 - 89	5 days	LS 3. Describe how plants and animals usually resemble their parents. LS 4. Investigate variations that exist among individuals of the same kind of plant or animal.		Sequence RP 4, 7, 9 AV 1 R 4 C 1, 3 IT 2	

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	Chapter 4 – Our Earth Lesson 4: How Can We Care for Earth? p. 154 – 161 Big Book p. 48 - 50	5 days	ST 2. Explore that some materials can be used over and over again (e.g., plastic or glass containers, cardboard boxes and tubes). SWOK 4. Demonstrate ways science is practiced by people everyday (children and adults).		Find Details RP 9 AV 1 C 1, 3
May - June	Chapter 5 – Weather and the Seasons Lesson 3: How Does Weather Change with the Seasons? Summer p. 182 – 195 Big Book p.57 – 62	7 days summer	ESS 3. Explore that sometimes change is too fast to see and sometimes change is too slow to see. ESS 5. Observe and describe seasonal changes in weather. SI 5. Draw pictures that correctly portray features of the item being described. SI 9. Make pictographs and use them to describe observations and draw conclusions.	<ul style="list-style-type: none"> ❖ Sequence order of the seasons ❖ Make observations ❖ Understands the big idea ❖ Matches animal with animal's home ❖ Uses vocabulary ❖ Draw and label diagrams ❖ Communicate ideas 	Early Literacy: Concepts of Print RP 1, 2, 3, 9 AV 1 C 1, 3 IT 2, 4
	Chapter 9 – Places to Live and Grow Lesson 1: Where Do Animals and Plants Live? p. 292 – 301 Big Book p. 91 – 94	7 days	LS 3. Describe how plants and animals usually resemble their parents. LS 6. Investigate the habitats of many different kinds of local plants and animals and some of the ways in which animals depend on plants and each other in our community.		Find Details RP 9 AV 1 C 1, 3
	Chapter 9 – Places to Live and Grow Lesson 2: How Do Plants and Animals Need One Another? p. 302 – 307 Big Book p. 95 – 96	3 days	ESS 3. Explore that sometimes change is too fast to see and sometimes change is too slow to see. LS 6. Investigate the habitats of many different kinds of local plants and animals and some of the ways in which animals depend on plants and each other in our community.		Early Literacy: Concepts of Print RP 1, 3, 9 AV 1 C 1, 3

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