

<b>Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2</b>		
<b>Benchmark</b>	<b>Harcourt 2000 Correlation</b>	<b>Delta Science Reader Correlation</b>
<b>Activity 11: A Compass in a Circuit</b>		
<b>SC.B.1.2.1:</b> <i>The student knows how to trace the flow of energy in a system (e.g., as in an ecosystem).</i>	Unit F, Chapter 3, Lesson 2, pp. F66–F73	<i>Plants in Our World</i> , p. 3
<b>SC.B.1.2.2:</b> <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
<b>SC.H.1.2.2:</b> <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
<b>SC.H.1.2.3:</b> <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
<b>SC.H.1.2.4:</b> <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
<b>Activities 12 &amp; 13: Plants and Solar Energy (Sessions I and II)</b>		
<b>SC.B.1.2.1:</b> <i>The student knows how to trace the flow of energy in a system (e.g., as in an ecosystem).</i>	Unit B, Chapter 2, Lesson 2, pp. B32–B39	<i>Plants in Our World</i> , p. 3
<b>SC.B.1.2.2:</b> <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
<b>SC.B.1.2.4:</b> <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.H.1.2.2:</b> <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	

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Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activities 12 &amp; 13: Plants and Solar Energy (Sessions I and II) (continued)</b>		
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
SC.H.1.2.4: <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
SC.H.3.2.2: <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	
<b>Activity 14: Transferring Solar Energy</b>		
<b>SC.B.1.2.2:</b> <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
<b>SC.B.1.2.3:</b> <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.B.1.2.4:</b> <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.B.1.2.5:</b> <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19
<b>SC.B.1.2.6:</b> <i>The student knows ways that heat can move from one object to another.</i>	Unit F, Chapter 3, Lesson 4, pp. F84–F85	<i>Matter and Change</i> , p. 11
SC.H.1.2.1: <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	

Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2		
Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 14: Transferring Solar Energy (continued)</b>		
SC.H.1.2.2: <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
SC.H.1.2.4: <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
SC.H.1.2.5: <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
SC.H.2.2.1: <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	
SC.H.3.2.2: <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	
<b>Activity 15: Solar Energy and Tray Color</b>		
SC.B.1.2.2: <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
SC.B.1.2.3: <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.4: <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.5: <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19

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<b>Benchmark</b>	<b>Harcourt 2000 Correlation</b>	<b>Delta Science Reader Correlation</b>
<b>Activity 15: Solar Energy and Tray Color (continued)</b>		
<b>SC.B.1.2.6:</b> <i>The student knows ways that heat can move from one object to another.</i>	Unit F, Chapter 3, Lesson 4, pp. F84–F85	<i>Matter and Change</i> , p. 11
<b>SC.H.1.2.1:</b> <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	
<b>SC.H.1.2.2:</b> <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
<b>SC.H.1.2.3:</b> <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
<b>SC.H.1.2.4:</b> <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
<b>SC.H.1.2.5:</b> <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
<b>SC.H.2.2.1:</b> <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	
<b>SC.H.3.2.2:</b> <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	

Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2		
Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 16: Solar Energy and Water Volume</b>		
<b>SC.B.1.2.2:</b> <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
<b>SC.B.1.2.4:</b> <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.B.1.2.5:</b> <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19
<b>SC.B.1.2.6:</b> <i>The student knows ways that heat can move from one object to another.</i>	Unit F, Chapter 3, Lesson 4, pp. F84–F85	<i>Matter and Change</i> , p. 11
<b>SC.H.1.2.1:</b> <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	
<b>SC.H.1.2.2:</b> <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
<b>SC.H.1.2.3:</b> <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
<b>SC.H.1.2.4:</b> <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	

Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2		
Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 16: Solar Energy and Water Volume (continued)</b>		
SC.H.1.2.5: <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
SC.H.2.2.1: <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	
SC.H.3.2.2: <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	
<b>Activity 17: Solar Energy and Exposure Time</b>		
SC.B.1.2.2: <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
SC.B.1.2.3: <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.5: <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19
SC.B.1.2.6: <i>The student knows ways that heat can move from one object to another.</i>	Unit F, Chapter 3, Lesson 4, pp. F84–F85	<i>Matter and Change</i> , p. 11
SC.H.1.2.1: <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	
SC.H.1.2.2: <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	

Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2		
Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 17: Solar Energy and Exposure Time (continued)</b>		
SC.H.1.2.4: <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
SC.H.1.2.5: <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
SC.H.2.2.1: <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	
SC.H.3.2.2: <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	
<b>Activity 18: Solar Energy and Tray Angle</b>		
<b>SC.B.1.2.2:</b> <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
<b>SC.B.1.2.3:</b> <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.B.1.2.4:</b> <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
<b>SC.B.1.2.5:</b> <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19
SC.H.1.2.1: <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	
SC.H.1.2.2: <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	

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Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 18: Solar Energy and Tray Angle (continued)</b>		
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
SC.H.1.2.4: <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
SC.H.1.2.5: <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
SC.H.2.2.1: <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	
SC.H.3.2.2: <i>The student knows that data are collected and interpreted in order to explain an event or concept.</i>	pp. x–xv	
<b>Activity 19: Designing a Solar Collector</b>		
SC.B.1.2.2: <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
SC.B.1.2.3: <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.4: <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.5: <i>The student knows that various forms of energy (e.g., mechanical, chemical, electrical, magnetic, nuclear, and radiant) can be measured in ways that make it possible to determine the amount of energy that is transformed.</i>	Unit F, Chapter 3, Lesson 4, pp. F82–F83	<i>Matter and Change</i> , pp. 18–19
SC.B.1.2.6: <i>The student knows ways that heat can move from one object to another.</i>	Unit F, Chapter 3, Lesson 4, pp. F84–F85	<i>Matter and Change</i> , p. 11

Broward County Hands-On Science Grade 5 Benchmark Correlation Chart—Quarter 2		
Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 19: Designing a Solar Collector (continued)</b>		
SC.H.1.2.1: <i>The student knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.</i>	pp. x–xv	
SC.H.1.2.2: <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
<b>Activity 20: Solar Cells</b>		
SC.B.1.2.1: <i>The student knows how to trace the flow of energy in a system (e.g., as in an ecosystem).</i>	Unit F, Chapter 3, Lesson 2, pp. F66–F73	<i>Plants in Our World</i> , p. 3
SC.B.1.2.2: <i>The student recognizes various forms of energy (e.g., heat, light, and electricity).</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 2, pp. F66–F73 Unit F, Chapter 3, Lesson 3, pp. F74–F81 Unit F, Chapter 3, Lesson 4, pp. F82–F87	<i>Matter and Change</i> , p. 11
SC.B.1.2.3: <i>The student knows that most things that emit light also emit heat.</i>	Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.1.2.4: <i>The student knows the many ways in which energy can be transformed from one type to another.</i>	Unit F, Chapter 3, Lesson 1, pp. F60–F65 Unit F, Chapter 3, Lesson 3, pp. F74–F78 Unit F, Chapter 3, Lesson 4, pp. F82–F85	
SC.B.2.2.2: <i>The student recognizes the costs and risks to society and the environment posed by the use of nonrenewable energy.</i>	Unit C, Chapter 2, Lesson 1, pp. C36–C38 Unit C, Chapter 2, Lesson 2, pp. C40–C47 Unit C, Chapter 2, Lesson 3, pp. C48–C53	
SC.B.2.2.3: <i>The student knows that the limited supply of usable energy sources (e.g., fuels such as coal or oil) places great significance on the development of renewable energy sources.</i>	Unit C, Chapter 2, Lesson 2, pp. C40–C47	

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Benchmark	Harcourt 2000 Correlation	Delta Science Reader Correlation
<b>Activity 20: Solar Cells (continued)</b>		
SC.H.1.2.2: <i>The student knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.</i>	pp. x–xv	
SC.H.1.2.3: <i>The student knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.</i>	pp. x–xv	
SC.H.1.2.4: <i>The student knows that to compare and contrast observations and results is an essential skill in science.</i>	pp. x–xv	
SC.H.1.2.5: <i>The student knows that a model of something is different from the real thing, but can be used to learn something about the real thing.</i>	pp. x–xv	
SC.H.2.2.1: <i>The student knows that natural events are often predictable and logical.</i>	pp. x–xv	