

**Prentice Hall Biology © 2004 (Miller & Levine),  
North Carolina Edition**

Correlated to:

**North Carolina Revised Standard Course of Study  
and Grade Level Competencies, Biology  
(Grades 9-12)**

STANDARDS COURSE OF STUDY AND GRADE LEVEL COMPETENCIES (REVISED, 2004)	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
<b>BIOLOGY</b>	
<b>COMPETENCY GOAL 1:</b> The learner will develop abilities necessary to do and understand scientific inquiry.	
<b>Objectives</b>	
<b>1.01</b> Identify biological questions and problems that can be answered through scientific investigations.	SE/TE: 2, 19, 34, 42, 62, 63, 70, 86, 91, 118, 125, 136, 138, 153, 161, 168, 180, 187, 200, 206, 220, 224, 231, 240, 242, 262, 268, 271, 236, 303, 318, 326, 340, 343, 351, 368, 389, 392, 401, 416, 420, 446, 453, 470, 482, 496, 504, 526, 531, 541, 550, 553, 565, 578, 601, 608, 613, 632, 640, 656, 662, 682, 695, 714, 718, 744, 750, 753, 766, 778, 796, 799, 811, 818, 850, 821, 834, 848, 849, 861, 870, 970, 982, 996, 1022, 1030, 1041, 1048, 1055 TR: Real World Labs: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: All Labs Chapter 1-40; Lab Manual B: All Labs Chapter 1-40 TECH: www.PHSchool.com
<b>1.02</b> Design and conduct scientific investigations to answer biological questions.	
<ul style="list-style-type: none"> <li>• Create testable hypotheses</li> </ul>	SE/TE: 19, 54, 55, 70, 81, 84, 116, 118, 161, 164, 188, 215, 218, 220, 234, 235, 238, 249, 252, 258, 284, 318, 335, 338, 364, 378, 379, 390, 406, 414, 491, 504, 521, 524, 531, 543, 546, 565, 512, 573, 576, 580, 608, 612, 620, 630, 632, 648, 649, 702, 707, 712, 724, 739, 759, 777, 789, 796, 811, 818, 843, 868, 879, 883, 886, 940, 942, 960, 964, 965, 990, 991, 994, 1028, 1058 TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990 TECH: www.PHSchool.com

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<ul style="list-style-type: none"> <li>Identify variables.</li> </ul>	SE/TE: 32, 161, 215, 334, 335, 488, 491, 508, 543, 601, 627, 739, 883, 990, 991 TR: Real World Lab: 543; Design an Experiment: 161, 215, 334, 627, 769, 883, 990 TECH: www.PHSchool.com
<ul style="list-style-type: none"> <li>Use a control or comparison group when appropriate.</li> </ul>	SE/TE: 9, 34, 54, 55, 81, 125, 215, 231, 334, 608, 648, 753, 942, 960, 990, 1057, 1062, 1063 TR: Real World Lab: 648; Design an Experiment: 54, 215, 334, 990 TECH: www.PHSchool.com
<ul style="list-style-type: none"> <li>Select and use appropriate measurement tools.</li> </ul>	SE/TE: 28, 29, 32, 54, 81, 82, 131, 161, 215, 231, 234, 235, 242, 313, 334, 368, 416, 521, 550, 601, 603, 627, 648, 649, 682, 739, 759, 790, 791, 811, 815, 861, 883, 905, 915, 937, 942, 960, 964, 982, 990, 1069, 1070, 1071, 1079, 1080, 1081, 1084 TR: Real World Lab: 81, 234, 648, 915; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Laboratory Skills, 2, 3, 5, 6, 7, Chapter 1-40; Laboratory Manual B: Laboratory Skills, 2, 3, 5, 6, 7, Chapter 1-40 TECH: www.PHSchool.com
<ul style="list-style-type: none"> <li>Collect and record data.</li> </ul>	SE/TE: 29, 54, 55, 113, 133, 161, 194, 234, 235, 351, 411, 441, 446, 491, 521, 603, 627, 676, 709, 718, 739, 790, 811, 815, 990, 991, 1079, 1080, 1081, 1084 TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Laboratory Skills, 4 All Labs Chapter 1-40; Laboratory Manual B: Laboratory Skills, 4 All Labs Chapter 1-40 TECH: www.PHSchool.com

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<ul style="list-style-type: none"> <li>Organize data into charts and graphs.</li> </ul>	<p>SE/TE: 25, 79, 11, 113, 116, 118, 123, 133, 158, 164, 188, 213, 218, 220, 234, 235, 249, 254, 255, 303, 343, 348, 351, 364, 368, 387, 396, 407, 420, 438, 440, 446, 453, 462, 508, 603, 606, 620, 637, 674, 709, 726, 787, 811, 815, 818, 825, 834, 842, 843, 855, 879, 913, 918, 935, 954, 974, 977, 994, 1015, 1028, 1055, 1058, 1080, 1081, 1084</p> <p>TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>Analyze and interpret data.</li> </ul>	<p>SE/TE: 27, 32, 42, 51, 79, 84, 91, 111, 113, 118, 123, 125, 131, 138, 158, 161, 188, 213, 231, 249, 255, 286, 296, 335, 368, 401, 408, 411, 420, 438, 441, 453, 455, 491, 494, 508, 543, 573, 592, 603, 620, 637, 674, 707, 724, 742, 787, 811, 842, 843, 855, 865, 875, 879, 913, 915, 935, 954, 968, 977, 1043, 1046, 1049, 1053, 1055, 1063, 1080, 1085</p> <p>TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>Communicate findings.</li> </ul>	<p>SE/TE: 2, 5, 10, 11, 23, 55, 81, 161, 215, 224, 235, 253, 255, 271, 281, 335, 368, 503, 529, 553, 563, 578, 594, 626, 632, 658, 675, 677, 693, 709, 738, 750, 791, 799, 805, 814, 843, 882, 937, 977, 1008, 1040</p> <p>TR: Real World Lab: 81, 234, 648, 842; Design an Experiment: 54, 161, 215, 334; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>

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<p><b>1.03</b> Formulate and revise scientific explanations and models of biological phenomena using logic and evidence to:</p>	
<ul style="list-style-type: none"> <li>• Explain observations.</li> </ul>	<p>SE/TE: 19, 81, 113, 125, 200, 206, 215, 240, 326, 361, 411, 446, 470, 502, 521, 535, 573, 608, 627, 640, 677, 718, 753, 798, 843, 937, 965, 999, 1020</p> <p>TR: Real World Lab: 81, 361, 842, 937; Design an Experiment: 215, 521, 627, 964; Laboratory Manual A: All Labs Chapter 1-40; Laboratory Manual B: All Labs Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Make inferences and predictions.</li> </ul>	<p>SE/TE: 2, 4, 8, 12, 19, 22, 27, 29, 43, 51, 52, 55, 58, 62, 80, 81, 86, 91, 92, 93, 94, 95, 107, 111, 112, 116, 118, 123, 124, 125, 126, 132, 133, 136, 139, 141, 143, 145, 153, 156, 161, 164, 173, 180, 181, 186, 187, 188, 193, 198, 200, 203, 206, 207, 213, 215, 218, 231, 234, 235, 238, 244, 249, 262, 267, 269, 274, 280, 284, 288, 294, 296, 302, 303, 308, 316, 323, 333, 338, 340, 346, 364, 368, 372, 373, 380, 385, 387, 390, 392, 401, 409, 410, 414, 416, 434, 438, 441, 444, 449, 453, 455, 462, 463, 466, 477, 488, 490, 494, 504, 509, 521, 524, 531, 535, 540, 546, 550, 554, 559, 562, 563, 565, 573, 578, 585, 592, 598, 601, 603, 606, 608, 610, 616, 619, 621, 626, 630, 632, 637, 638, 640, 648, 649, 652, 662, 663, 667, 676, 677, 680, 685, 695, 699, 712, 718, 723, 738, 739, 742, 744, 753, 759, 762, 769, 770, 775, 777, 778, 787, 790, 791, 796, 800, 801, 805, 820, 825, 832, 842, 843, 848, 852, 855, 861, 868, 871, 883, 886, 890, 894, 903, 905, 908, 918, 920, 929, 935, 940, 950, 960, 965, 970, 982, 989, 990, 991, 996, 1008, 1025, 1028, 1030, 1032, 1043, 1055, 1058</p> <p>TR: Real World Lab: 81, 234, 462, 648, 842, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 769, 759, 883, 964, 990; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Explain the relationship between evidence and explanation.</li> </ul>	<p>SE/TE: 3, 4, 5</p> <p>TECH: www.PHSchool.com</p>

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<p><b>1.04</b> Apply safety procedures in the laboratory and in field studies:</p>	
<ul style="list-style-type: none"> <li>• Recognize and avoid potential hazards.</li> </ul>	<p>SE/TE: 28, 32, 54, 81, 113, 133, 161, 187, 194, 215, 231, 234, 235, 254, 334, 411, 470, 491, 521, 543, 601, 603, 648, 676, 709, 739, 790, 842, 883, 930, 937, 990, 1055, 1062, 1063, 1066, 1067, 1068, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085</p> <p>TR: Real World Lab: 81, 234, 543, 648, 842, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 739, 883, 990; Laboratory Manual A: All Labs Chapter 1-40; Laboratory Skills 7-11, 19-22; Laboratory Manual B: All Labs Chapter 1-40; Laboratory Skills 7-11, 19-22</p> <p>TECH: www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Safely manipulate materials and equipment needed for scientific investigations.</li> </ul>	<p>SE/TE: 24, 25, 26, 27, 28, 29, 32, 42, 54, 70, 81, 91, 113, 125, 133, 153, 161, 168, 180, 187, 194, 206, 215, 231, 234, 235, 242, 254, 268, 303, 326, 334, 351, 361, 379, 401, 411, 420, 453, 462, 470, 482, 491, 504, 521, 531, 543, 565, 573, 601, 603, 613, 627, 640, 648, 662, 676, 695, 709, 718, 739, 753, 759, 775, 790, 811, 834, 842, 861, 875, 883, 903, 905, 915, 930, 937, 960, 964, 990, 1022, 1041, 1055, 1060, 1061, 1062, 1071, 1072, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085</p> <p>TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Lab Skills 27-48, All Labs Chapter 1-40; Laboratory Manual B: Lab Skills 27-48, All Labs Chapter 1-40</p> <p>TECH: www.PHSchool.com</p>
<p><b>1.05</b> Analyze reports of scientific investigations from an informed scientifically literate viewpoint including considerations of:</p>	
<ul style="list-style-type: none"> <li>• Appropriate sample.</li> </ul>	<p>SE/TE: 23, 27, 29, 42, 54, 55, 79, 81, 113, 123, 161, 194, 195, 215, 234, 235, 254, 281, 313, 334, 361, 387, 411, 441, 462, 489, 491, 521, 543, 573, 603, 627, 648, 649, 676, 677, 709, 739, 759, 790, 791, 815, 842, 843, 865, 883, 915, 964, 965, 990, 991, 1025</p>

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(continued) • Appropriate sample.	(continued) TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 151, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40 TECH: www.PHSchool.com
• Adequacy of experimental controls.	SE/TE: 8, 9, 10, 11, 12, 13, 23, 27, 29, 42, 54, 55, 79, 81, 113, 123, 161, 194, 195, 215, 234, 235, 254, 281, 313, 334, 361, 387, 411, 441, 462, 489, 491, 521, 543, 573, 603, 627, 648, 649, 676, 677, 709, 739, 759, 790, 791, 815, 842, 843, 865, 883, 915, 964, 965, 990, 991, 1025 TR: Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915, 937, 1055; Design an Experiment: 54, 151, 215, 334, 521, 627, 739, 759, 883, 964, 990; Laboratory Manual A: Chapter 1-40; Laboratory Manual B: Chapter 1-40 TECH: www.PHSchool.com
• Replication of findings.	SE/TE: 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 23 TR: Core Teaching Resources: 1-1, 1-2; Guided Reading and Study Workbook: 1-1, 1-2; Lesson Plans: 1-1, 1-2; Enrichment: 1-2; Biotechnology Manual: Concept: 1; Issues and Decisions Making: 2 TECH: www.PHSchool.com
• Alternative interpretations of the data.	SE/TE: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 29, 54, 55, 81, 113, 118, 133, 161, 194, 195, 215, 220, 234, 235, 254, 281, 313, 318, 334, 335, 361, 387, 411, 441, 462, 463, 491, 504, 521, 543, 573, 603, 627, 632, 648, 649, 676, 677, 707, 709, 739, 759, 790, 791, 796, 815, 842, 843, 865, 883, 915, 960, 964, 965, 990, 999, 1025, 1049, 1062, 1063 TR: Core Teaching Resources: 1-1, 1-2; Guided Reading and Study Workbook: 1-1, 1-2; Lesson Plans: 1-1, 1-2; Enrichment: 1-2; Biotechnology Manual: Concept : 1; Issues and Decisions Making: 2; Real World Lab: 81, 234, 361, 462, 543, 648, 842, 915; Design an Experiment: 54, 161, 215, 334, 521, 627, 739, 759, 883, 964, 990 TECH: www.PHSchool.com

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<b>COMPETENCY GOAL 2:</b> The learner will develop an understanding of the physical, chemical and cellular basis of life.	
<b>Objectives</b>	
<b>2.01</b> Compare and contrast the structure and functions of the following organic molecules:	
<ul style="list-style-type: none"> <li>• Carbohydrates.</li> </ul>	SE/TE: 45, 46, 972 TR: Section Review: 2-3; Guided Reading and Study Workbook: Section 2-3; Lesson Plans: 2-3; Laboratory Manual A: Chapter 2; Laboratory Manual B: Chapter 2 TECH: iText: Section 2-3; Section 2-3; Figure: 2-13; Lab Simulations CD-Rom: Properties of Biomolecular; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Proteins.</li> </ul>	SE/TE: 47, 48, 53, 182, 951, 973 TR: Section Review: 2-3; Guided Reading and Study Workbook: Section 2-3; Lesson Plans: 2-3; Laboratory Manual A: Chapter 2; Laboratory Manual B: Chapter 2 TECH: iText: Section 2-3; Section 2-3; Figure: 2-16, 2-17; Lab Simulations CD-Rom: Properties of Biomembranes; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Lipids.</li> </ul>	SE/TE: 46, 47, 184, 973, 999 TR: Section Review: 2-3; Guided Reading and Study Workbook: Section 2-3; Lesson Plans: 2-3; Laboratory Manual A: Chapter 2; Laboratory Manual B: Chapter 2 TECH: iText: Section 2-3; Section 2-3; Figure: 2-14; Lab Simulations CD-Rom: Properties of Biomembranes; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Nucleic acids.</li> </ul>	SE/TE: 47, 48, 291, 292, 293, 294 TR: Section Review: 2-3, 12-1; Guided Reading and Study Workbook: Section 2-3, 12-1; Enrichment: 12-1; Lesson Plans: 2-3, 12-1; Laboratory Manual A: Chapter 2; Laboratory Manual B: Chapter 2 TECH: iText: Section 2-3; Transparencies Plus: 12-1; Section 2-3; Figure: 2-15, 2-16, 12-5, 12-6, 12-7; Lab Simulations CD-Rom: Properties of Biomembranes; DNA Structure and Replication; www.PHSchool.com

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<b>2.02</b> Investigate and describe the structure and functions of cells including:	
<ul style="list-style-type: none"> <li>• Cell organelles.</li> </ul>	SE/TE: 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 194, 195 TR: Section Review: 7-1, 7-2; Guided Reading and Study Workbook: Section 7-1, 7-2; Lesson Plans: 7-1, 7-2 TECH: iText: Section 7-1, 7-2; Figure: 7-6, 7-11; Lab www.PHSchool.com
<ul style="list-style-type: none"> <li>• Cell specialization.</li> </ul>	SE/TE: 190, 191, 192, 193, 660 TR: Section Review: 7-4; Guided Reading and Study Workbook: Section 7-4; Lesson Plans: 7-4; Enrichment: 7-4; Laboratory Manual B: Chapter 7 TECH: iText: Section : 7-4; Transparencies Plus: 7-4; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Communication among cells within an organism.</li> </ul>	SE/TE: 897, 898, 899, 900 TR: Section Review: 35-2; Guided Reading and Study Workbook: Section 35-2; Lesson Plans: 35-2 TECH: iText: Section : 35-2; Transparencies Plus: Section 35-2; Figure: 35-6, 35-7, 35-8; ABC Videotape Library: 48, Action Potential, 49, Synaptic Transmission; www.PHSchool.com
<b>2.03</b> Investigate and analyze the cell as a living system including:	
<ul style="list-style-type: none"> <li>• Maintenance of homeostasis.</li> </ul>	SE/TE: 19, 20, 790, 791, 822, 854, 855, 895, 896, 988, 989, 1000, 1001, 1005 TR: Section Review: Section 35-1, 38-3, 39-1; Guided Reading and Study Workbook: Section 35-1, 38-3, 39-1; Lesson Plans: Section 35-1, 38-3, 39-1 TECH: iText: Section 35-1, 38-3, 39-1; Figure: 35-2, 38-3, 38-17, 38-19, 39-2; ABC Videotape Library: 41, Kidney Function; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Movement of materials into and out of cells.</li> </ul>	SE/TE: 183, 184, 185, 186, 187, 188, 189 TR: Section Review: 7-3; Guided Reading and Study Workbook: Section 7-3; Lesson Plans: 7-3; Real World Lab: Chapter 7; Laboratory Manual A: Chapter 7; TECH: iText:

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(continued) • Movement of materials into and out of cells.	(continued) Section : 7-3; Transparencies Plus: 7-3; Figure: 7-12, 7-15, 7-19; ABC Videotape Library: 5, Diffusion and Osmosis, 6, Passive and Active Transport, 7, Endocytosis and Exocytosis; Lab Simulations CD-Rom: Biomembranes I: Membrane Structure and Transport; www.PHSchool.com
• Energy use and release in biochemical reactions.	SE/TE: 200, 201, 202, 203, 208, 209, 210, 211, 212, 213, 214, 215, 220, 221, 222, 223, 226, 227, 228, 229, 230 TR: Section Review: 8-1, 8-3, 9-1; Guided Reading and Study Workbook: Section 8-1, 8-3, 9-1; Enrichment: 9-2; Lesson Plans: 8-1, 8-3, 9-1; Core Teaching Resources: Biotechnology Manual: Lab 17, Issue 4, Lab 1; Concept : Issues and Decisions Making: Real World Lab: Chapter 9; Design an Experiment: Chapter 8; Laboratory Manual A: Chapter 9 Labs; Laboratory Manual B: Chapter 9 Labs TECH: iText: Section : 8-1, 8-3, 9-1, 9-2; Transparencies Plus: 8-1, 8-3, 9-1, 9-2; Figure: 8-3, 8-7, 8-10, 8-11, 9-2, 9-3, 9-4, 9-6, 9-7; ABC Videotape Library: 8, ATP Formation, 10, Light-Dependent Reactions, 11 Calvin Cycle, 12, Aerobic Respiration, 13, Glycolysis, 14, Krebs Cycle, 15, Electron Transport Chain; www.PHSchool.com
<b>2.04</b> Investigate and describe the structure and function of enzymes and explain their importance in biological systems.	SE/TE: 51, 52, 53, 54, 55, 210, 596, 322, 323, 326, 356, 979, 980, 981, 982, 990, 991 TR: Section Review: 2-4, 13-2, 38-2; Guided Reading and Study Workbook: Section 2-4, 13-2, 38-2; Lesson Plans: 2-4, 13-2, 38-2; Biotechnology Manual: Issue 1, Labs 8, 9, 12; Laboratory Manual A: Chapter 13 Labs; Laboratory Manual B: Chapter 13 Labs, Chapter 38 Labs TECH: iText: Section : 2-4, 13-2, 38-2; Transparencies Plus: 2-4, 13-2, 38-2; Figure: 2-19, 2-21, 13-6, 13-7, 13-8, 38-10, 38-13, 38-14; ABC Videotape Library: 4, Enzymatic Reactions; www.PHSchool.com

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<p><b>2.05</b> Investigate and analyze the bioenergetic reactions:</p>	
<ul style="list-style-type: none"> <li>• Aerobic Respiration.</li> </ul>	<p>SE/TE: 220, 221, 222, 223, 226, 227, 231, 752, 753, 775, 811, 956, 957, 958, 960, 964, 965</p> <p>TR: Section Review: 9-1, 9-2, 37-3; Guided Reading and Study Workbook: Section 9-1, 9-2, 37-3; Enrichment: 9-2, 37-3; Lesson Plans: 9-1, 9-2, 37-3; Biotechnology Manual: Lab 1; Issues and Decisions Making: 41; Real World Lab: Chapter 9; Design an Experiment: Chapter 37; Laboratory Manual A: Chapter 9; Laboratory Manual B: Chapter 9</p> <p>TECH: iText: Section 9-1, 9-2, 37-3; : Transparencies Plus: Section 9-1, 9-2, 37-3; Figure: 9-2, 9-3, 9-4, 9-6, 9-7, 37-13, 37-14, 37-15; ABC Videotape Library: 13, Glycolysis, 12, Aerobic Respiration, 42, Human Respiration; Lab www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Anaerobic Respiration.</li> </ul>	<p>SE/TE: 224, 225, 231, 234, 235, 474</p> <p>TR: Section Review: 9-1, Enrichment; Guided Reading and Study Workbook: Section 9-1; Lesson Plans: 9-1; Biotechnology Manual: Lab; Real World Lab: Chapter 9</p> <p>TECH: iText: Section : 9-1; Transparencies Plus: Section 9-1; Figure: 9-2, 9-3, 9-4; Lab Simulations CD-Rom: Cell Respiration; ABC Videotape Library: 13, Glycolysis; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Photosynthesis.</li> </ul>	<p>SE/TE: 68, 200, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 232, 474, 595, 596, 597</p> <p>TR: Section Review: 8-2, 8-3; Guided Reading and Study Workbook: Section 8-2, 8-3; Lesson Plans: 8-2, 8-3; Biotechnology Manual: Lab 17, Issue 4; Design an Experiment: Chapter 8; Laboratory Manual A: Chapter 8 labs; Laboratory Manual B: Chapter 89 Labs</p> <p>TECH: iText: Section : 8-1, 8-2, 8-3; Transparencies Plus: Section 8-1, 8-2, 8-3; Figure: 8-3, 8-5, 8-7, 8-10, 8-11; ABC Videotape Library: 9 Photosynthesis, 10, Light-Dependent Reactions; 11, Calvin Cycle; www.PHSchool.com</p>

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<b>COMPETENCY GOAL 3:</b> The learner will develop an understanding of the continuity of life and the changes of organisms over time.	
<b>Objectives</b>	
<b>3.01</b> Analyze the molecular basis of heredity including:	
<ul style="list-style-type: none"> <li>• DNA replication.</li> </ul>	SE/TE: 243, 245, 255, 297, 298, 299, 313 TR: Section Review: 12-2, Chapter 12 Exploration; Guided Reading and Study Workbook: Section 12-2; Lesson Plans: 12-2 TECH: iText: Section : 12-2; Transparencies Plus: 12-2; Section ; Figure: 12-10, 12-11; Lab Simulations CD-Rom: DNA Structure and Replication; ABC Videotape Library: 21, DNA Replication; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Protein synthesis (transcription, translation).</li> </ul>	SE/TE: 300, 301, 302, 303, 304, 305, 306, 315, 316 TR: Section Review: 12-3; Guided Reading and Study Workbook: Section 12-3; Lesson Plans: 12-3 TECH: iText: Section : 12-3; Transparencies Plus: 12-3; Figures: 12-14, 12-17, 12-18; Lab Simulations CD-Rom: DNA Structure and Replication; ABC Videotape Library: 25, DNA Transcription, 26, Protein Structure and Replication; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Gene regulation.</li> </ul>	SE/TE: 309, 310, 311, 312, 315, 316 TR: Section Review: 12-5; Guided Reading and Study Workbook: Section 12-5; Lesson Plans: 12-5; Biotechnology Manual: Lab 13 TECH: iText: Section 12-5; Transparencies Plus: 12-5; www.PHSchool.com
<b>3.02</b> Compare and contrast the characteristics of asexual and sexual reproduction.	SE/TE: 17, 395, 428, 502, 548, 528, 529, 530, 531, 533, 562, 563, 576, 659, 666, 667, 672, 686, 690, 696, 704, 826, 827, 864 TR: Section Review: 21-1, 21-2, 22-3; Guided Reading and Study Workbook: Section 21-1, 21-2, 21-3; Lesson Plans: 21-1, 21-2, 21-3 TECH: iText: Section : 21-1, 21-2, 21-3; Transparencies Plus: Section 21-1, 21-2, 21-3; Figure: 21-5, 21-7, 22-3; www.PHSchool.com

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<p><b>3.03</b> Interpret and predict patterns of inheritance.</p>	<p>SE/TE: 264, 265, 266, 268, 269, 270, 271, 273, 284, 340, 341, 342, 343</p> <p>TR: Section Review: 11-1, 11-2; 11-3, 14-1; Guided Reading and Study Workbook: Section 11-1, 11-2; 11-3, 14-1; Lesson Plans: 11-1, 11-2; 11-3, 14-1; Biotechnology Manual: Lab 10, Issues 2, 3; Laboratory Manual A: Chapter 11 Labs, Chapter 14; Chapter Laboratory Manual B: Chapter 11 Labs, Chapter 14</p> <p>TECH: iText: Section 11-1, 11-2; 11-3, 14-1; Transparencies Plus: 11-1, 11-2; 11-3, 14-1; Figure: 11-3, 11-10, 11-11, 14-3, 14-4, 14-8; Lab Simulations CD-Rom: Mendelian Inheritance; ABC Videotape Library: 19, Segregation of Chromosomes, 23, Human Sex Determination; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Dominant, recessive and intermediate traits.</li> </ul>	<p>SE/TE: 264, 265, 266, 269, 271, 272, 284, 345, 346, 348, 350</p> <p>TR: Section Review: 11-1, 11-3, 14-1; Guided Reading and Study Workbook: 11-1, 11-3, 14-1; Lesson Plans: 11-1, 11-3, 14-1; Laboratory Manual A: Chapter 11 Labs; Laboratory Manual B: Chapter 11 Labs, Chapter 14</p> <p>TECH: iText: 11-1, 11-3, 14-1; Transparencies Plus: 11-1, 11-3, 14-1; Figure: 11-3, 11-10, 11-11, 14-3, 14-4, 14-8; Lab Simulations CD-Rom: Mendelian Inheritance; ABC Videotape Library: 19, Segregation of Chromosomes, 23, Human Sex Determination; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Multiple alleles.</li> </ul>	<p>SE/TE: 273, 344</p> <p>TR: Section Review 11-3; Guided Reading and Study Workbook: 11-3, Lesson Plans: 11-3</p> <p>TECH: iText: 11-3; Transparencies Plus: 11-3; www.PHSchool.com</p>

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<ul style="list-style-type: none"> <li>• Polygenic inheritance.</li> </ul>	SE/TE: 273, 343, 395, 396, 398, 399 TR: Section Review: 16-1, 16-2, Chapter 16 Exploration; Guided Reading and Study Workbook: 16-1, 16-2; Lesson Plans: 16-1, 16-2; Core Teaching Resources: Laboratory Manual A: Chapter 16 Labs; Laboratory Manual B: Chapter 16 Labs
(continued) <ul style="list-style-type: none"> <li>• Polygenic inheritance.</li> </ul>	(continued) TECH: iText: 16-1, 16-2; Transparencies Plus: 16-1, 16-2; Figure: 16-2, 16-3, 16-6, 16-7, 16-8; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Sex-linked traits.</li> </ul>	SE/TE: 341, 342, 350, 351, 352, 353, 363 TR: Section Review: 14-2; Guided Reading and Study Workbook: 14-2; Lesson Plans: 14-2; Issues and Decisions Making: 7 TECH: iText: 14-2; Transparencies Plus: Section 14-2; Figure: 14-3; BioDetectives Videotapes: "Coming Home: A Nation's Pledge" ABC Videotape Library: 24, Non-disjunction; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Independent assortment.</li> </ul>	SE/TE: 270, 271, 272, 279, 280 TR: Section Review: 11-3; Guided Reading and Study Workbook: 11-3; Lesson Plans: 11-3; Laboratory Manual A: Chapter 11 Lab; Laboratory Manual B: Chapter 11 Lab TECH: iText: 11-3; Transparencies Plus: 11-3; Figure: 11-3, 11-10, 11-11; Lab Simulations CD-Rom: Mendelian Inheritance; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Test cross.</li> </ul>	SE/TE: 264, 265, 266, 268, 270, 271, 272 TR: Section Review: 11-1, 11-3; Guided Reading and Study Workbook: 11-1, 11-3; Lesson Plans: 11-1, 11-3; Laboratory Manual A: Chapter 11; Laboratory Manual B: Chapter 11 TECH: iText: 11-1, 11-3; Transparencies Plus: 11-1, 11-3; Figure: 11-3, 11-10, 11-11; Lab Simulations CD-Rom: Mendelian Inheritance; www.PHSchool.com

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<ul style="list-style-type: none"> <li>• Pedigrees.</li> </ul>	SE/TE: 342, 343, 363, 364, 365 TR: Section Review: 14-1; Guided Reading and Study Workbook: 14-1; Lesson Plans: 14-1; Biotechnology Manual: Lab 10; Issues 2, 3 TECH: iText: 14-1; Transparencies Plus: 14-1; Figure: 14-3, 14-4, 14-8; ABC Videotape Library: 23 Human Sex Determination; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Punnett squares.</li> </ul>	SE/TE: 264, 268, 269, 270, 271, 272, 283, 284, 340, 350, 364 TR: Section Review: 11-2, 11-3; Guided Reading and Study Workbook: 11-2, 11-3; Lesson Plans: 11-2, 11-3; Enrichment: 11-2; Laboratory Manual A: Chapter 11; Laboratory Manual B: Chapter 11 TECH: iText: 11-2, 11-3; Transparencies Plus: 11-2, 11-3; Figure: 11-10, 11-11, 14-13; Lab Simulations CD-Rom: Mendelian Inheritance; www.PHSchool.com
<b>3.04</b> Assess the impact of advances in genomics on individuals and society.	SE/TE: 253, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 354, 357, 358, 359, 360 TR: Section Review: 13-1, 13-2, 13-3, 13-4, 14-3; Guided Reading and Study Workbook: 13-1, 13-2, 13-3, 13-4, 14-3; Enrichment: 13-1, 13-4; Lesson Plans: 13-1, 13-2, 13-3, 13-4, 14-3; Biotechnology Manual: Concept: Issues 1, 4; Labs: 2, 8, 9, 11, 12, 14, 15, 17; Concepts: 2, 3, 4, 5, 6, 7; Issues and Decisions Making: 9, 10, 11, 12, 18, 24; Real World Lab: Chapter 13; Design an Experiment: Chapter 14; Laboratory Manual A: Chapter 13, Laboratory Manual B: Chapter 13 TECH: iText: Section : 13-1, 13-2, 13-3, 13-4, 14-3; Transparencies Plus: 13-1, 13-2, 13-3, 13-4, 14-3; Figure: 13-6, 13-7, 13-8, 13-9, 13-10, 13-13, 14-18, 14-21; ABC Videotape Library: 30, Gene Transfer and Cloning; www.PHSchool.com

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<ul style="list-style-type: none"> <li>• Human genome project.</li> </ul>	<p>SE/TE: 349, 357, 358, 359, 360, 364</p> <p>TR: Section Review: 14-3; Guided Reading and Study Workbook: 14-3; Lesson Plans: 14-3; Biotechnology Manual: Labs 2, 11, 12, Concept, 2, 3, 4, 6; Issues and Decisions Making: 9, 10, 11, 12; Real World Lab: Chapter 14</p> <p>TECH: iText: Section : 14-3, Transparencies Plus: 14-3; Figure: 14-18, 14-21; ABC Videotape Library: 30, Gene Transfer and Cloning; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Applications of biotechnology.</li> </ul>	<p>SE/TE: 253, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 337, 338, 354, 355, 356, 357, 358, 359, 360, 361, 364, 617</p> <p>TR: Section Review: 13-1, 13-2, 13-3, 13-4, 14-3; Guided Reading and Study Workbook: 13-1, 13-2, 13-3, 13-4, 14-3; Enrichment: 13-1, 13-4; Lesson Plans: 13-1, 13-2, 13-3, 13-4, 14-3; Biotechnology Manual: Concept: Issues 1, 4; Labs: 2, 8, 9, 11, 12, 14, 15, 17; Concepts: 2, 3, 4, 5, 6, 7; Issues and Decisions Making: 9, 10, 11, 12, 18, 24; Real World Lab: Chapter 13; Design an Experiment: Chapter 14; Laboratory Manual A: Chapter 13, Laboratory Manual B: Chapter 13</p> <p>TECH: iText: Section : 13-1, 13-2, 13-3, 13-4, 14-3; Transparencies Plus: 13-1, 13-2, 13-3, 13-4, 14-3; Figure: 13-6, 13-7, 13-8, 13-9, 13-10, 13-13, 14-18, 14-21; ABC Videotape Library: 30, Gene Transfer and Cloning; www.PHSchool.com</p>
<p><b>3.05</b> Examine the development of the theory of evolution by natural selection including:</p>	

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<ul style="list-style-type: none"> <li>• Development of the theory.</li> </ul>	<p>SE/TE: 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 386, 397, 398, 399, 406, 407, 668</p> <p>TR: Section Review: 15-1, 15-2, 15-3, 16-2; Guided Reading and Study Workbook: 15-1, 15-2, 15-3, 16-2; Lesson Plans: 15-1, 15-2, 15-3, 16-2; Enrichment: 15-1; Laboratory Manual A: Chapter 15, Laboratory Manual B: Chapter 15</p> <p>TECH: iText: 15-1, 15-2, 15-3, 16-2; Transparencies Plus: 15-1, 15-2, 15-3, 16-2; Figure: 15-1, 15-7, 15-14, 15-15, 16-6, 16-7, 16-8; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• The origins and history of life.</li> </ul>	<p>SE/TE: 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440</p> <p>TR: Section Review: 17-1, 17-2, 17-3, 17-4; Guided Reading and Study Workbook: 17-1, 17-2, 17-3, 17-4; Lesson Plans: 17-1, 17-2, 17-3, 17-4; Enrichment: 17-1; Exploration 17-4; Issues and Decisions Making: 13, 14; Laboratory Manual A: Chapter 17 Lab</p>
<p>(continued)</p> <ul style="list-style-type: none"> <li>• The origins and history of life.</li> </ul>	<p>(continued)</p> <p>TECH: iText: 17-1, 17-2, 17-3, 17-4; Transparencies Plus: 17-1, 17-2, 17-3, 17-4; Figure: 17-2, 17-5, 17-8, 17-12; BioDetectives Videotapes: "Ties to the Past"; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Fossil and biochemical evidence.</li> </ul>	<p>SE/TE: 373, 382, 383, 417, 418, 419, 420, 421, 422, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440</p> <p>TR: Section Review: 17-1, 17-3, 17-4; Guided Reading and Study Workbook: 17-1, 17-3, 17-4; Enrichment: 17-1; Lesson Plans: 17-1, 17-3, 17-4; Exploration: Chapter 17; Issues and Decisions Making: 13, 14</p> <p>TECH: iText: 17-1, 17-3, 17-4; Transparencies Plus: 17-1, 17-3, 17-4; Figure: 17-2, 17-5; BioDetectives Videotapes: "Ties to the Past"; www.PHSchool.com</p>

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<ul style="list-style-type: none"> <li>• Mechanisms of evolution.</li> </ul>	<p>SE/TE: 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 397, 398, 399, 400, 401, 402, 404, 405, 406, 407, 408, 409, 410, 435, 436, 437, 438, 439, 440, 441</p> <p>TR: Section Review: 15-1, 15-2, 15-3, 16-2, 16-3, 17-4; Guided Reading and Study Workbook: 15-1, 15-2, 15-3, 16-2, 16-3, 17-4; Enrichment: 15-1, 16-3; Lesson Plans: 15-1, 15-2, 15-3, 16-2, 16-3, 17-4; Exploration: Chapter 15, Chapter 17; Issues and Decisions Making: 13, 16; Laboratory Manual A: Chapter 15; Laboratory Manual B: Chapter 15, 16</p> <p>TECH: iText: 15-1, 15-2, 15-3, 16-2, 16-3, 17-4; Transparencies Plus: 15-1, 15-2, 15-3, 16-2, 16-3, 17-4; Figure: 15-1, 15-7, 15-14, 15-15, 16-6, 16-7, 16-8; BioDetectives Videotapes: "The Galapagos Islands: A Glimpse Into the Past", www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Applications (pesticide and antibiotic resistance).</li> </ul>	<p>SE/TE: 403, 411 www.PHSchool.com</p>
<p><b>COMPETENCY GOAL 4:</b> The learner will develop an understanding of the unity and diversity of life.</p>	
<p><b>Objectives</b></p>	
<p><b>4.01</b> Analyze the classification of organisms according to their evolutionary relationships.</p>	<p>SE/TE: 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 466, 467, 849</p> <p>TR: Section Review: 18-2, 18-3; Guided Reading and Study Workbook: 18-2, 18-3; Lesson Plans: 18-2, 18-3; Real World Lab: Chapter 18; Laboratory Manual A: Chapter 18 Lab; Laboratory Manual B: Chapter 18 Lab</p> <p>TECH: iText: Section : 18-2, 18-3; Transparencies Plus: 18-2, 18-3; Figure: 18-12, 18-13; www.PHSchool.com</p>

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<ul style="list-style-type: none"> <li>The historical development and changing nature of classification systems.</li> </ul>	<p>SE/TE: 446, 447, 448, 449, 450, 451, 452, 453, 457, 458, 466</p> <p>TR: Section Review: 18-1, 18-2; Guided Reading and Study Workbook: 18-1, 18-2; Enrichment: 18-1; Lesson Plans: 18-1, 18-2; BioDetectives: Investigations in Forensics: 5</p> <p>TECH: iText: 18-1, 18-2; Transparencies Plus: 18-1, 18-2; Figure: 18-5; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>Similarities and differences between eukaryotic and prokaryotic organisms.</li> </ul>	<p>SE/TE: 172, 173, 297, 427, 458, 459, 460, 461, 470, 471, 472, 473, 474, 475, 476, 488, 489</p> <p>TR: Section Review: 18-3, 19-1; Guided Reading and Study Workbook: 18-3, 19-1; Lesson Plans: 18-3, 19-1; Exploration: Chapter 19; Laboratory Manual A: Chapter 18, Laboratory Manual B: Chapter 18</p> <p>TECH: iText: Section : 18-3; Transparencies Plus: 18-3; Figure: 18-12, 18-3; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>Similarities and differences among the eukaryotic kingdoms: Protists, Fungi, Plants, Animals.</li> </ul>	<p>SE/TE: 457, 458, 459, 460, 461, 496, 497, 498, 499, 500, 502, 503, 506, 507, 508, 510, 511, 512, 513, 516, 517, 518, 521, 523, 524, 526, 527, 528, 530, 531, 532, 534, 535, 545, 546, 550, 551, 552, 553, 554, 555, 556, 557, 560, 561, 564, 565, 566, 569, 570, 573, 576, 656, 657, 658, 659, 660, 661, 662, 663, 744, 745, 746, 747, 748, 749, 750, 766, 767, 768, 769, 770, 820, 821, 822, 823, 824, 825, 826, 827, 849, 850, 851</p>

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<p>(continued)</p> <ul style="list-style-type: none"> <li>Similarities and differences among the eukaryotic kingdoms: Protists, Fungi, Plants, Animals.</li> </ul>	<p>(continued)</p> <p>TR: Section Review: 18-3, 20-1, 20-2, 20-3, 20-4, 20-5, 21-1, 22-1, 22-2, 22-3, 22-4, 22-5, 26-1, 29-1, 30-1, 32-1; Guided Reading and Study Workbook: 18-3, 20-1, 20-2, 20-3, 20-4, 20-5, 21-1, 22-1, 22-2, 22-3, 22-4, 22-5, 26-1, 29-1, 30-1, 32-1; Enrichment: 20-3, 21-2, 22-5, 29-1; Exploration: Chapter 22; Lesson Plans: 18-3, 20-1, 20-2, 20-3, 20-4, 20-5, 21-1, 22-1, 22-2, 22-3, 22-4, 22-5, 26-1, 29-1, 30-1, 32-1; Real World Lab: Chapter 18, 32; Design an Experiment: Chapter 20; Laboratory Manual A: Chapter 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32; Laboratory Manual B: Chapter 18, 20, 21, 22, 23, 26, 27, 28, 29, 30, 32</p> <p>TECH: iText: 18-3, 20-1, 20-2, 20-3, 20-4, 20-5, 21-1, 22-1, 22-2, 22-3, 22-4, 22-5, 26-1, 29-1, 30-1, 32-1; Transparencies Plus: 18-3, 20-1, 20-2, 20-3, 20-4, 20-5, 21-1, 22-1, 22-2, 22-3, 22-4, 22-5, 26-1, 29-1, 30-1, 32-1; Figure: 18-12, 18-13, 20-4, 20-5, 20-7, 20-17, 20-22, 20-23, 21-2, 21-5, 21-7, 21-8, 22-6, 22-7, 22-11, 22-17, 22-19, 22-25, 26-5, 29-4, 30-1, 32-4; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>Classify organisms using keys.</li> </ul>	<p>SE/TE: 452, 453, 461, 462, 463, 464, 466</p> <p>TR: Section Review: 18-2, 18-3; Guided Reading and Study Workbook: 18-2, 18-3; Lesson Plans: 18-2, 18-3; Real World Lab: Chapter 18; Laboratory Manual A: Chapter 18; Laboratory Manual B: Chapter 18</p> <p>TECH: iText: 18-2, 18-3; Transparencies Plus: 18-2, 18-3; Figure: 18-12, 18-13; www.PHSchool.com</p>
<p><b>4.02</b> Analyze the processes by which organisms representative of the following groups accomplish essential life functions including:</p>	
<ul style="list-style-type: none"> <li>Unicellular protists, annelid worms, insects, amphibians, mammals, non vascular plants, gymnosperms and angiosperms.</li> </ul>	<p>SE/TE: 496, 497, 501, 502, 503, 508, 510, 511, 512, 513, 514, 517, 518, 519, 521, 551, 552, 558, 559, 560, 562, 563, 564, 565, 569, 570, 571, 573, 575, 576, 579, 580, 581, 582, 584, 585, 586, 587, 588, 589, 590, 595, 596, 597, 598, 599, 600, 601, 602, 603, 605, 606, 610, 611, 612, 614, 615, 627, 630, 632, 633, 634, 639,</p>

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<p>(continued)</p> <ul style="list-style-type: none"> <li>• Unicellular protists, annelid worms, insects, amphibians, mammals, non vascular plants, gymnosperms and angiosperms.</li> </ul>	<p>(continued)</p> <p>640, 641, 694, 695, 696, 697, 727, 728, 729, 782, 783, 784, 785, 786, 787, 790, 791, 820, 821, 822, 823, 824, 825, 826, 827</p> <p>TR: Section Review: 20-1, 20-2, 20-3, 20-4, 20-5, 22-1, 22-2, 22-3, 22-4, 22-5, 23-1, 23-2, 23-3, 23-4, 23-5, 24-1, 25-1, 27-3, 28-3, 30-3, 32-1; Guided Reading and Study Workbook: 20-1, 20-2, 20-3, 20-4, 20-5, 22-1, 22-2, 22-3, 22-4, 22-5, 23-1, 23-2, 23-3, 23-4, 23-5, 24-1, 25-1, 27-3, 28-3, 30-3, 32-1; Enrichment: 20-3, 22-5, 23-4, 27-3, 28-3; Lesson Plans: 20-1, 20-2, 20-3, 20-4, 20-5, 22-1, 22-2, 22-3, 22-4, 22-5, 23-1, 23-2, 23-3, 23-4, 23-5, 24-1, 25-1, 27-3, 28-3, 30-3, 32-1; Enrichment: 20-3, 22-5, 23-4, 27-3, 28-3; Exploration: Chapter 22, 23, 30; Issues and Decisions Making: 22-1, 28, 33; BioDetectives: Investigations in Forensics: 7, 9; Real World Lab: Chapter 25, 32; Design an Experiment: Chapter 20, 24; Laboratory Manual A: Chapter 20, 22, 23, 25, 28, 30; Laboratory Manual B: Chapter 20, 22, 23, 28, 30</p> <p>TECH: iText: Section : 20-1, 20-2, 20-3, 20-4, 20-5, 22-1, 22-2, 22-3, 22-4, 22-5, 23-1, 23-2, 23-3, 23-4, 23-5, 24-1, 25-1, 27-3, 28-3, 30-3, 32-1; Transparencies Plus: 20-1, 20-2, 20-3, 20-4, 20-5, 22-1, 22-2, 22-3, 22-4, 22-5, 23-1, 23-2, 23-3, 23-4, 23-5, 24-1, 25-1, 27-3, 28-3, 30-3, 32-1; Figure: 20-5, 20-7, 20-17, 20-22, 20-23, 22-6, 22-7, 22-11, 22-17, 22-19, 22-25, 23-1, 23-7, 23-9, 23-14, 23-15, 23-18, 23-24, 24-1, 24-4, 24-5, 24-7, 25-3, 25-5, 27-16, 28-18, 30-26, 32-4; BioDetectives Videotapes: "Insect Clues: The Smallest Witnesses"; Lab Simulations CD-Rom: Roots, Stems, and Leaves; ABC Videotape Library: 32, Water Transport in Plants, 33 Sugar Movement in Plants, 34, Angiosperm Reproduction, 35, Earthworm Anatomy, 37, Frog Anatomy; <a href="http://www.PHSchool.com">www.PHSchool.com</a></p>

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<ul style="list-style-type: none"> <li>Transport, excretion, respiration, regulation, nutrition, synthesis, reproduction, growth and development.</li> </ul>	<p>SE/TE: 599, 600, 601, 602, 610, 611, 612, 613, 614, 615, 616, 658, 659, 695, 696, 784, 785, 786, 824, 826, 827, 895, 896, 921, 922, 926, 927, 930, 933, 934, 956, 957, 958, 959, 964, 965, 971, 972, 973, 985, 986, 987, 988, 997, 998, 999, 1000, 1001, 1003, 1004, 1005, 1006, 1009, 1010, 1011, 1016, 1017, 1018, 1019, 1020</p> <p>TR: Section Review: 23-5, 24-1, 30-3, 36-1, 36-2, 36-3, 37-3, 38-1, 38-3, 39-1, 39-2, 39-3, 39-4; Guided Reading and Study Workbook: 23-5, 24-1, 30-3, 36-1, 36-2, 36-3, 37-3, 38-1, 38-3, 39-1, 39-2, 39-3, 39-4; Enrichment: 36-3, 39-4; Exploration: Chapter 30, 39; Lesson Plans: 23-5, 24-1, 30-3, 36-1, 36-2, 36-3, 37-3, 38-1, 38-3, 39-1, 39-2, 39-3, 39-4; Design an Experiment: Chapter 24, 37; BioDetectives: Investigations in Forensics: 7; Issues and Decision Making: 5, 6, 8, 35, 39, 40, 41, 43, 45, 49; Laboratory Manual A: Chapter 30, 36, 37, 38, 39; Laboratory Manual B: Chapter 30, 36, 39</p> <p>TECH: iText: Section : 23-5, 24-1, 30-3, 36-1, 36-2, 36-3, 37-3, 38-1, 38-3, 39-1, 39-2, 39-3, 39-4; Transparencies Plus: Section 23-5, 24-1, 30-3, 36-1, 36-2, 36-3, 37-3, 38-1, 38-3, 39-1, 39-2, 39-3, 39-4; Figure: 23-24, 24-1, 24-4, 24-5, 24-7, 30-26, 36-3, 36-4, 36-5, 36-7, 36-8, 36-11, 37-13, 37-14, 37-15, 38-6, 38-7, 38-8, 38-17, 39-2, 39-12, 39-14; ABC Videotape Library: 32, Water Transport in Plants, 33, Sugar Movements in Plants, 34, Angiosperm Reproduction, 37, Frog Anatomy, 39, Muscle Contraction, 42, Human Respiration, 41, Kidney Function, 47, Regulation of Blood Sugar; www.PHSchool.com</p>
<p><b>4.03</b> Assess, describe and explain adaptations affecting survival and reproductive success.</p>	
<ul style="list-style-type: none"> <li>Structural adaptations in plants and animals (form to function).</li> </ul>	<p>SE/TE: 633-646, 664, 665, 666, 667, 670, 671, 672, 684, 685, 686, 690, 691, 695, 696, 697, 698, 702, 703, 704, 716, 717, 718, 728, 729, 735, 736, 737, 738, 739, 751, 752, 753, 754, 755, 756, 757, 758, 754, 755, 756, 757, 758, 774, 775, 776, 777, 778, 784, 785, 786, 787, 800, 801, 802, 808, 809, 810, 811, 812, 822, 823,</p>

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<p>(continued)</p> <ul style="list-style-type: none"> <li>• Structural adaptations in plants and animals (form to function).</li> </ul>	<p>(continued)</p> <p>824, 825, 826, 827, 857, 858, 859, 860, 861, 862, 863, 864</p> <p>TR: Section Review: 25-1, 25-2, 25-3, 26-2, 26-3, 27-1, 27-2, 27-3, 27-4, 28-1, 28-3, 28-4, 29-1, 29-2, 30-1, 30-2, 30-3, 31-1, 31-2, 32-1, 33-1; Guided Reading and Study Workbook: 25-1, 25-2, 25-3, 26-2, 26-3, 27-1, 27-2, 27-3, 27-4, 28-1, 28-3, 28-4, 29-1, 29-2, 30-1, 30-2, 30-3, 31-1, 31-2, 32-1, 33-1; Enrichment: 25-2, 26-3, 27-3, 28-3, 29-1, 30-2, 31-2; Exploration: Chapter 27, 30, 31; Lesson Plans: 25-1, 25-2, 25-3, 26-2, 26-3, 27-1, 27-2, 27-3, 27-4, 28-1, 28-3, 28-4, 29-1, 29-2, 30-1, 30-2, 30-3, 31-1, 31-2, 32-1, 33-1; Biotechnology Manual: 7; Issues and Decisions Making: 13, 28, 30, 33, 34, 37; BioDetectives: Investigations in Forensics: 8, 9; Real World Lab: Chapter 25, 32; Design an Experiment: Chapter 28, 29; Laboratory Manual A: Chapter 25, 26, 27, 28, 29, 30, 31, 33; Laboratory Manual B: Chapter 25, 26, 27, 28, 29, 30, 31, 33</p> <p>TECH: iText: 25-1, 25-2, 25-3, 26-2, 26-3, 27-1, 27-2, 27-3, 27-4, 28-1, 28-3, 28-4, 29-1, 29-2, 30-1, 30-2, 30-3, 31-1, 31-2, 32-1, 33-1; Transparencies Plus: 25-1, 25-2, 25-3, 26-2, 26-3, 27-1, 27-2, 27-3, 27-4, 28-1, 28-3, 28-4, 29-1, 29-2, 30-1, 30-2, 30-3, 31-1, 31-2, 32-1, 33-1; Figure: 25-3, 25-5, 26-8, 26-12, 27-3, 27-16, 27-21, 27-23, 28-4, 28-18, 28-23, 29-4, 29-8, 29-9, 29-10, 29-11, 29-12, 30-1, 30-11, 30-26, 31-8, 31-16, 32-4, 33-8, 33-10, 33-11; BioDetectives Videotapes: “Insect Clues: “The Smallest Witnesses”; “Wrongly Accused: Science and Justice”; ABC Videotape Library: 35, Earthworm Anatomy, 37, Frog Anatomy, 38, Circulatory Systems; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Disease causing viruses and microorganisms.</li> </ul>	<p>SE/TE: 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 494, 502, 503, 504, 1030, 1031, 1032, 1033, 1045, 1046</p> <p>TR: Section Review: 19-2, 19-3, 20-2, 40-1; Guided Reading and Study Workbook: Section 19-2, 19-3, 20-2, 40-1; Lesson Plans: 19-2, 19-3, 20-2, 40-1; Biotechnology Manual: Lab 16; BioDetectives:</p>

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(continued) • Disease causing viruses and microorganisms.	(continued) Investigations in Forensics: 6; Laboratory Manual A: Chapter 19, 40; Laboratory Manual B: Chapter 20 TECH: iText: 19-2, 19-3, 20-2, 40-1; Transparencies Plus: Section 19-2, 19-3, 20-2, 40-1; Figure: 19-9, 19-10, 19-11, 20-4, 20-7, 40-3; BioDectectives Videotapes: “Influenza: Tracking a Virus”, “Hantavirus: A Tale of Mice and People”; ABC Videotape Library: 31, Lytic and Lysogenic Cycles; www.PHSchool.com
• Co evolution.	SE/TE: 437, 438, 441 TR: Section Review: 17-4; Guided Reading and Study Workbook: 17-4; Exploration: Chapter 17; Lesson Plans: 17-4; Issues and Decisions Making: 13 TECH: iText: 17-4; Transparencies Plus: 17-4; www.PHSchool.com
<b>4.04</b> Analyze and explain the interactive role of internal and external factors in health and disease:	
• Genetics.	SE/TE: 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 363, 364 TR: Section Review: 14-1, 14-2; Guided Reading and Study Workbook: 14-1, 14-2; Enrichment: 14-2; Lesson Plans: 14-1, 14-2; Biotechnology Manual: Lab 10, Issues 2, 3; Issues and Decisions Making: 7; Laboratory Manual A: Chapter 14; Laboratory Manual B: Chapter 14 TECH: iText: 14-1, 14-2; Transparencies Plus: 14-1, 14-2; Figure: 14-3, 14-4, 14-8, 14-13; BioDectectives Videotapes: 23, Human Sex Determination, 24, Nondisjunction; www.PHSchool.com

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<ul style="list-style-type: none"> <li>• Immune response.</li> </ul>	<p>SE/TE: 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048</p> <p>TR: Section Review: 40-1, 40-2, 40-3; Guided Reading and Study Workbook: 40-1, 40-2, 40-3; Lesson Plans: 40-1, 40-2, 40-3; Biotechnology Manual: Labs 16; Real World Lab: Chapter 40; Laboratory Manual A: Chapter 40; Laboratory Manual B: Chapter 40</p>
<p>(continued)</p> <ul style="list-style-type: none"> <li>• Immune response.</li> </ul>	<p>TECH: iText: 40-1, 40-2, 40-3; Transparencies Plus: 40-1, 40-2, 40-3; Figure: 40-3, 40-7, 40-8, 40-10; BioDetectives Videotapes “Influenza: Tracking a Virus”, “Hantavirus: A Tale of Mice and People”; ABC Videotape Library: 44, Inflammatory Response, 45, Humoral Immunity, 46, Cell-Medicated Immunity; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Nutrition.</li> </ul>	<p>SE/TE: 970, 971, 972, 973, 974, 975, 976, 977, 978, 979</p> <p>TR: Section Review: 38-1; Guided Reading and Study Workbook: 38-1; Lesson Plans: 38-1; Issues and Decisions Making: 5, 35, 39, 49</p> <p>TECH: iText: 38-1; Transparencies Plus: 38-1; Figure: 38-6, 38-7, 38-8; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Parasites.</li> </ul>	<p>SE/TE: 93, 126, 502, 503, 504, 537, 538, 539, 645, 658, 684, 685, 686, 687, 688, 690, 691, 692, 698, 724, 1033, 1034</p> <p>TR: Section Review: 20-2, 21-3, 27-1, 27-2; Guided Reading and Study Workbook: 20-2, 21-3, 27-1, 27-2; Lesson Plans: 20-2, 21-3, 27-1, 27-2</p> <p>TECH: iText: 20-2, 21-3, 27-1, 27-2; Transparencies Plus: 20-2, 21-3, 27-1, 27-2; Figure: 20-7, 27-3; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Toxins.</li> </ul>	<p>SE/TE: 509, 789, 910, 911, 912, 913, 914, 961, 962, 1049, 1050, 1051, 1052</p> <p>TR: Section Review: 35-5, 40-4; Guided Reading and Study Workbook: 35-5, 40-4; Enrichment: 40-4; Lesson Plans: 35-5, 40-4; Biotechnology Manual: Lab 13; Issues and Decisions Making: 8, 41, 42</p> <p>TECH: iText: 35-5, 40-4; Transparencies Plus: 35-5, 40-4; www.PHSchool.com</p>

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<p><b>4.05</b> Analyze the broad patterns of animal behavior as adaptations to the environment.</p>	<p>SE/TE: 739, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887</p> <p>TR: Section Review: 34-1, 34-2; Guided Reading and Study Workbook: 34-1, 34-2; Enrichment: 34-2; Lesson Plans: 34-1, 34-2; Design an Experiment: Chapter 34</p> <p>TECH: iText: 34-1, 34-2; Transparencies Plus: 34-1, 34-2; Figure: 34-5, 34-8; <a href="http://www.PHSchool.com">www.PHSchool.com</a></p>
<ul style="list-style-type: none"> <li>• Innate behavior.</li> </ul>	<p>SE/TE: 870, 871, 872, 873, 876, 877, 878, 879, 883</p> <p>TR: Section Review: 34-1, 34-2; Guided Reading and Study Workbook: 34-1, 34-2; Enrichment: 34-2; Lesson Plans: 34-1, 34-2; Design an Experiment: Chapter 34; Laboratory Manual A: Chapter 34; Laboratory Manual B: Chapter 34</p> <p>TECH: iText: 34-1, 34-2; Transparencies Plus: 34-1, 34-2; Figure: 34-5, 34-8; <a href="http://www.PHSchool.com">www.PHSchool.com</a></p>
<ul style="list-style-type: none"> <li>• Learned behavior.</li> </ul>	<p>SE/TE: 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881</p> <p>TR: Section Review: 34-1, 34-2; Guided Reading and Study Workbook: 34-1, 34-2; Enrichment: 34-2; Lesson Plans: 34-1, 34-2; Design an Experiment: Chapter 34; Laboratory Manual A: Chapter 34; Laboratory Manual B: Chapter 34</p> <p>TECH: iText: 34-1, 34-2; Transparencies Plus: 34-1, 34-2; Figure: 34-5, 34-8; <a href="http://www.PHSchool.com">www.PHSchool.com</a></p>
<ul style="list-style-type: none"> <li>• Social behavior.</li> </ul>	<p>SE/TE: 871, 872, 877, 878, 879, 880, 881, 882, 883</p> <p>TR: Section Review: 34-1, 34-2; Guided Reading and Study Workbook: 34-1, 34-2; Enrichment: 34-2; Lesson Plans: 34-1, 34-2; Design an Experiment: Chapter 34; Laboratory Manual A: Chapter 34; Laboratory Manual B: Chapter 34</p> <p>TECH: iText: 34-1, 34-2; Transparencies Plus: 34-1, 34-2; Figure: 34-5, 34-8; <a href="http://www.PHSchool.com">www.PHSchool.com</a></p>
<p><b>COMPETENCY GOAL 5:</b> The learner will develop an understanding of the ecological relationships among organisms.</p>	

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<b>Objectives</b>	
<p><b>5.01</b> Investigate the interrelationships among organisms, populations, communities, and ecosystems.</p>	<p>SE/TE: 21, 62, 63, 64, 69, 70, 71, 74, 75, 76, 77, 78, 79, 80, 86, 91, 92, 93, 94, 95, 96, 97, 99, 100, 101, 102, 103, 104, 105, 106, 107, 120, 121, 122, 123, 1079, 1080</p> <p>TR: Section Review: 3-1, 3-2, 3-3, 4-2, 4-3, 4-4, 5-1; Guided Reading and Study Workbook 3-1, 3-2, 3-3, 4-2, 4-3, 4-4, 5-1; Enrichment: 3-3, 4-2; Lesson Plans: 3-1, 3-2, 3-3, 4-2, 4-3, 4-4, 5-1; Biotechnology Manual: Issue 4; Issues and Decisions Making: 46; BioDetectives: Investigation in Forensics: 2; Laboratory</p>
<p>(continued)</p> <p><b>5.01</b> Investigate the interrelationships among organisms, populations, communities, and ecosystems.</p>	<p>(continued)</p> <p>Manual A: Chapter 3, 4; Laboratory Manual B: Chapter 3, 4</p> <p>TECH: iText: 3-1, 3-2, 3-3, 4-2, 4-3, 4-4, 5-1; Transparencies Plus: 3-1, 3-2, 3-3, 4-2, 4-3, 4-4, 5-1; Figure: 3-2, 3-8, 3-13, 3-14, 4-5, 4-11, 4-17, 5-4; BioDetectives Videotapes: "Pfiesteria: A Killer in the Water"; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Techniques of field ecology.</li> </ul>	<p>SE/TE: 63, 64, 65, 66, 81, 91, 95, 111, 113, 128, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085</p> <p>TR: Section Review: 3-1; Guided Reading and Study Workbook: 3-1; Lesson Plans: 3-1</p> <p>TECH: iText: 3-1; Transparencies Plus: 3-1; Figure: 3-2; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Abiotic and biotic factors.</li> </ul>	<p>SE/TE: 21, 63, 67, 68, 69, 70, 71, 72, 73, 81, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 116, 119</p> <p>TR: Section Review: 3-2, 4-2, 4-3; Guided Reading and Study Workbook: 3-2, 4-2, 4-3; Enrichment: 4-2; Exploration: 4-2; Lesson Plans: 3-2, 4-2, 4-3; Issues and Decisions Making: 46; BioDetectives: Investigations in Forensics: 2; Laboratory Manual A: Chapter 4; Laboratory Manual B: Chapter 4</p> <p>TECH: iText: 3-2, 4-2, 4-3; Transparencies Plus: 3-2, 4-2, 4-3; Figure: 3-8, 4-5, 4-11; www.PHSchool.com</p>

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<ul style="list-style-type: none"> <li>• Carrying capacity.</li> </ul>	<p>SE/TE: 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 136</p> <p>TR: Section Review: 5-1, 5-2; Guided Reading and Study Workbook: 5-1, 5-2; Enrichment: 5-2; Lesson Plans: 5-1, 5-2; Issues and Decisions Making:48; Laboratory Manual A: Chapter 5; Laboratory Manual B: Chapter 5</p> <p>TECH: iText: 5-1,5-2; Transparencies Plus: 5-1, 5-2; Figure: 5-4, 5-7; www.PHSchool.com</p>
<p><b>5.02</b> Analyze the flow of energy and the cycling of matter in the ecosystem</p>	<p>SE/TE: 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 84</p> <p>TR: Section Review: 3-2, 3-3; Guided Reading and Study Workbook: 3-2, 3-3; Enrichment: Chapter 3; Exploration: Chapter 3; Lesson Plans: 3-2, 3-3; Biotechnology Manual: Issue 4; Laboratory Manual A: Chapter 3; Laboratory Manual B: Chapter 3</p> <p>TECH: iText: 3-2, 3-3; Transparencies Plus: 3-2, 3-3; Figure: 3-8, 3-13, 3-14; BioDectectives Videotapes: “Pfiesteria: A Killer in the Water”; www.PHSchool.com</p>
<ul style="list-style-type: none"> <li>• Relationship of the carbon cycle to photosynthesis and respiration.</li> </ul>	<p>SE/TE: 73, 77, 206, 212, 213, 214, 222, 223, 224, 225, 226, 227, 228, 229</p> <p>TR: Section Review: 8-3, 9-1, 9-2; Guided Reading and Study Workbook: 8-3, 9-1, 9-2; Enrichment: 9-1; Lesson Plans: 8-3, 9-1, 9-2; Biotechnology Manual: Lab 17, Issue 4; Real World Lab: Chapter 9; Design an Experiment: 8-3; Laboratory Manual A: Chapter 9; Laboratory Manual B: Chapter 9</p> <p>TECH: iText: 8-3, 9-1, 9-2; Transparencies Plus: 8-3, 9-1, 9-2; Figure: 8-7, 8-10, 8-11, 9-2, 9-3, 9-4, 9-6, 9-7; Lab Simulations CD-Rom: “Photosynthesis, Cell Respiration; ABC Videotape Library: 10, Light-Dependent Reactions, 11, Calvin Cycle, 12, Aerobic Respiration, 13, Glycolysis, 14, Krebs Cycle, 15, Electron Transport Chain; www.PHSchool.com</p>

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<b>STANDARDS COURSE OF STUDY AND GRADE LEVEL COMPETENCIES (REVISED, 2004)</b>	<b>PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))</b>
<ul style="list-style-type: none"> <li>• Trophic levels - direction and efficiency of energy transfer.</li> </ul>	SE/TE: 69, 70, 71, 72, 73, 81, 83, 84 TR: Section Review: 3-2; Guided Reading and Study Workbook: 3-2; Lesson Plans: 3-2 TECH: iText: 3-2; Transparencies Plus: 3-2; Figure: 3-8; www.PHSchool.com
<b>5.03</b> Assess human population and its impact on local ecosystems and global environments:	
<ul style="list-style-type: none"> <li>• Historic and potential changes in population.</li> </ul>	SE/TE: 129, 130, 131, 132, 135, 136 TR: Section Review: 5-3; Guided Reading and Study Workbook: 5-3; Exploration: Chapter 5; Lesson Plans: 5-3; Issues and Decisions Making: Issues 47; Laboratory Manual A: Chapter 5; Laboratory Manual B: Chapter 5
(continued) <ul style="list-style-type: none"> <li>• Historic and potential changes in population.</li> </ul>	(continued) TECH: iText: 5-3; Transparencies Plus: 5-3; Figure: 5-13; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Factors associated with those changes.</li> </ul>	SE/TE: 129, 130, 131, 132, 135, 136 TR: Section Review: 5-3; Guided Reading and Study Workbook: 5-3; Exploration: Chapter 5; Lesson Plans: 5-3; Issues and Decisions Making: Issues 47; Laboratory Manual A: Chapter 5; Laboratory Manual B: Chapter 5 TECH: iText: 5-3; Transparencies Plus: 5-3; Figure: 5-13; www.PHSchool.com
<ul style="list-style-type: none"> <li>• Climate change.</li> </ul>	SE/TE: 87, 88, 89, 139, 143, 148, 149, 152, 153, 157, 158, 159, 160, 161, 163, 164 TR: Section Review: 4-1, 6-1, 6-2, 6-3, 6-4; Guided Reading and Study Workbook: 4-1, 6-1, 6-2, 6-3, 6-4; Enrichment: 6-2; Exploration: Chapter 6; Lesson Plans: 4-1, 6-1, 6-2, 6-3, 6-4; Biotechnology Manual: Concept : 8; Issues and Decisions Making: 1, 3, 21, 22, 23, 25, 26, 27, 29, 30, 31, 32, 34, 36, 50; Laboratory Manual A: Chapter 6, Laboratory Manual B: Chapter 6 TECH: iText: 4-1, 6-1, 6-2, 6-3, 6-4; Transparencies Plus: 4-1, 6-1, 6-2, 6-3, 6-4; Figure: 4-1, 4-2, 6-12, 6-16, 6-22; www.PHSchool.com

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<ul style="list-style-type: none"> <li>• Resource use.</li> </ul>	<p>SE/TE: 138, 142, 143, 144, 145, 146, 147, 148, 149, 151, 154, 155, 156, 161, 164</p> <p>TR: Section Review: 6-1, 6-2, 6-3; Guided Reading and Study Workbook: 6-1, 6-2, 6-3; Enrichment: 6-2; Lesson Plans: 6-1, 6-2, 6-3; Issues and Decisions Making: 21, 22, 23, 25, 26, 27, 29, 30, 31, 32, 34, 36; Laboratory Manual A: Chapter 6; Laboratory Manual B: Chapter 6</p> <p>TECH: iText: 6-1, 6-2, 6-3; Transparencies Plus: 6-1, 6-2, 6-3; Figure: 6-12, 6-16; www.PHSchool.com</p>

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<ul style="list-style-type: none"> <li>• Sustainable practices/stewardship.</li> </ul>	<p>SE/TE: 87, 88, 89, 139, 143, 148, 149, 152, 153, 157, 158, 159, 160, 161, 163, 164</p> <p>TR: Section Review: 4-1, 6-1, 6-2, 6-3, 6-4; Guided Reading and Study Workbook: 4-1, 6-1, 6-2, 6-3, 6-4; Enrichment: 6-2; Exploration: Chapter 6; Lesson Plans: 4-1, 6-1, 6-2, 6-3, 6-4; Biotechnology Manual: Concept : 8; Issues and Decisions Making: 1, 3, 21, 22, 23, 25, 26, 27, 29, 30, 31, 32, 34, 36, 50; Laboratory Manual A: Chapter 6, Laboratory Manual B: Chapter 6</p> <p>TECH: iText: 4-1, 6-1, 6-2, 6-3, 6-4; Transparencies Plus: 4-1, 6-1, 6-2, 6-3, 6-4; Figure: 4-1, 4-2, 6-12, 6-16, 6-22; www.PHSchool.com</p>

**Reference:**

[http://www.learnnc.org/dpi/instserv.nsf/Category8/695566E37B594D2D85256D7B005723EF/\\$file/Science%20Book.pdf](http://www.learnnc.org/dpi/instserv.nsf/Category8/695566E37B594D2D85256D7B005723EF/$file/Science%20Book.pdf)

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