Glencoe

Science Grade Level Content Expectations
Sixth Grade

MICHIGAN Department of Education
Office of School Improvement
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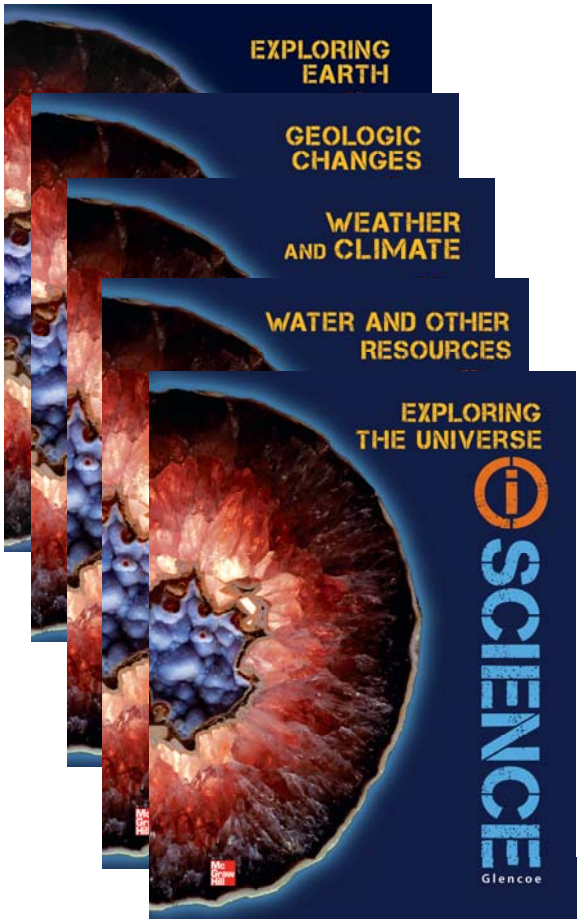

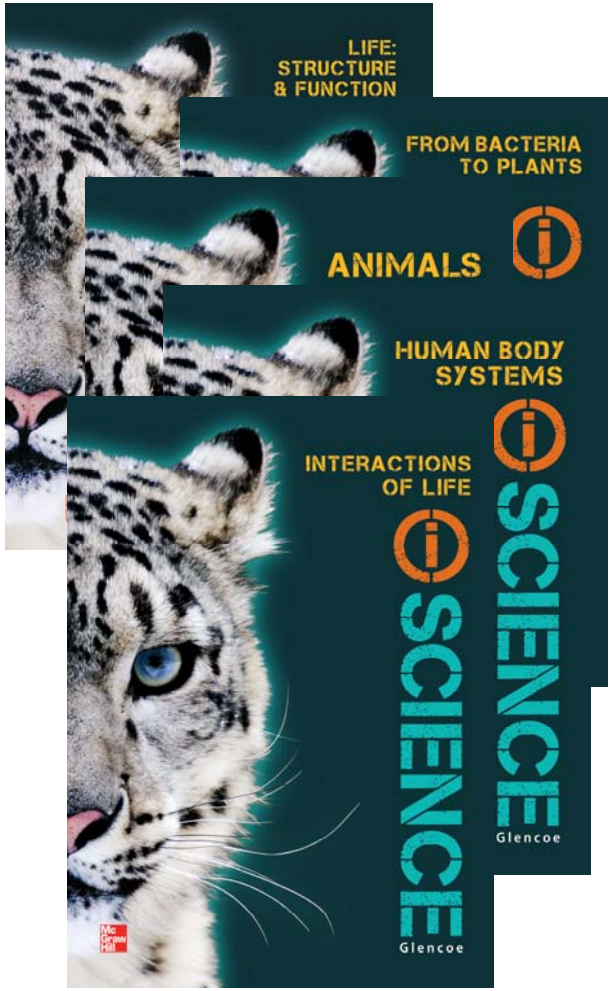

Module A Exploring Earth
Module B Geologic Changes
Module C Weather and Climate
Module D Water and Other Resources
Module E Exploring the Universe

Module F Life: Structure and Function
Module G From Bacteria to Plants
Module H Animals
Module I Human Body Systems
Module J Interactions of Life

Module K Motion and Forces
Module L Energy and Matter
Module M Atoms and Elements
Module N Interactions of Matter
Module O Waves, Electricity, and Magnetism

Codes used for Teacher Edition pages are the initial caps of headings on that page.
*** Revised expectations marked by an asterisk.**

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
SCIENCE PROCESSES—Inquiry Process			
K-7 Standard S.IP: *Develop an understanding that scientific inquiry and reasoning involves observing, questioning, investigating, recording, and developing solutions to problems.*			
S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.			
S.IP.06.11 Generate scientific questions based on observations, investigations, and research.	**Student Edition:** **NATURE OF SCIENCE** NOS 6-NOS 7 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *Inquiry Extension* 67, 101, 167, 203 **MODULE B** *Inquiry Extension* 243, 283, 395 **MODULE C** *Inquiry Extension* 441, 477 *Inquiry Lab* 512-513 **MODULE D** *Inquiry Extension* 553, 633 *Inquiry Lab* 674-675 **MODULE E** *Inquiry Extension* 751, 791 **Science Skill Handbook** SR-2	**Student Edition:** **NATURE OF SCIENCE** NOS 6 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 106-107 **MODULE G** *Inquiry Lab* 254-255 **MODULE H** *Inquiry Lab* 472-473 **MODULE I** *Inquiry Lab* 590-591, 626-627 **MODULE J** *Inquiry Lab* 730-731 **SCIENCE SKILL HANDBOOK** SR-2 **Teacher Edition:** **NATURE OF SCIENCE** DIF NOS 7; TB NOS 2	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 34-35, 76-77, 112-113, 146-147 *Launch Lab* 27, 45, 54, 62, 70, 87, 95, 103, 123, 132, 140 *MiniLab* 57, 64, 74, 89, 96, 109, 125, 134, 142 *Skill Practice* 25, 60, 68, 101, 138 **MODULE L** *Lab* 186-187, 220-221, 262-263, 298-299 *Launch Lab* 161, 169, 177, 197, 205, 215, 231, 249, 256, 273, 282, 292 *MiniLab* 164, 173, 201, 209, 217, 232, 242, 251, 258, 277, 288, 295 *Skill Practice* 175, 203, 247, 254, 290

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.11** Generate scientific questions based on observations, investigations, and research.	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 7, NOS 21; DI NOS 7 **MODULE D** DI 655		Continued from previous cell… **MODULE M** *Lab* 334-335, 370-371, 404-405 *Launch Lab* 313, 326, 345, 355, 363, 381, 390, 398 *MiniLab* 308, 320, 329, 351, 359, 368, 386, 394, 401 *Skill Practice* 353, 396 **MODULE N** *Lab* 442-443, 478-479, 514-515 *Launch Lab* 419, 430, 436, 453, 461, 471, 489, 499, 508 *MiniLab* 423, 440, 456, 464, 476, 494, 503 *Skill Practice* 428, 469, 506 **MODULE O** *Lab* 554-555, 590-591, 624-625, 668-669, 706-707, 742-743 *Launch Lab* 529, 539, 547, 565, 573, 583, 601, 609, 615, 635, 643, 650, 661, 679, 690, 699, 717, 727, 735 *MiniLab* 525, 531, 541, 549, 569, 577, 585, 603, 620, 638, 645, 652, 663, 682, 692, 704, 721, 730, 737 *Skill Practice* 545, 581, 613, 648, 659, 697, 733

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.11** Generate scientific questions based on observations, investigations, and research.			Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28-NOS 29 **MODULE K** L 34-35, 76-77, 112-113, 146-147, LL 103; ML 125; SP 25, 101, 138 **MODULE L** L 186-187, 220-221, 262-263, 298-299; LL 169; SP 175, 247, 290 **MODULE M** L 334-335, 370-371, 404-405; LL 363, 398; ML 308, 351, 386; SP 353, 396 **MODULE N** L 442-443, 478-479, 514-515; SP 428, 469 **MODULE O** L 554-555, 590-591, 624-625, 668-669, 706-707, 742-743; LL 547; ML 525; SP 581, 613, 648, 659, 697, 733

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IP.06.12 Design and conduct scientific investigations.	**Student Edition:** **NATURE OF SCIENCE** NOS 6-NOS 7 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *Inquiry Skill Practice* 57, 194 *Inquiry Lab* 66-67, 100-101, 138-139, 166-167, 202-203 *MiniLab* 115, 134 **MODULE B** *Inquiry Lab* 242-243, 282-283, 304-305, 316-317, 353-354 *Inquiry Skill Practice* 259, 369 *MiniLab* 227, 264 *Launch Lab* 337 **MODULE C** *Launch Lab* 418 *Inquiry Skill Practice* 425, 494 *MiniLab* 429 *Inquiry Lab* 440-441, 476-477, 512-513 **MODULE D** *MiniLab* 531 *Inquiry Skill Practice* 544, 659 *Inquiry Lab* 552-553, 596-597, 632-633 *Launch Lab* 563	**Student Edition:** **Nature of Science** NOS 20 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 106-107 **MODULE G** *Inquiry Lab* 254-255 **MODULE H** *Inquiry Lab* 472-473 *Skill Practice* 454 **MODULE I** *Inquiry Lab* 590-591, 626-627 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 721 **Science Skill Handbook** SR6 **Teacher Edition:** **Nature of Science** FT NOS 21	**Student Edition:** **MODULE K** *Inquiry Extension* 35, 113 **MODULE L** *Lab* 262-263, 298-299 **MODULE N** *Lab* 442-443 **MODULE O** *Inquiry Extension* 625 **Teacher Edition:** **MODULE K** DI 135; IE 35, 113 **MODULE L** L 262-263, 298-299 **MODULE N** L 442-443; SP 469 **MODULE O** DI 719

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.12** Design and conduct scientific investigations.	Continued from previous cell… **MODULE E** *MiniLab* 691, 710 *Inquiry Skill Practice* 697, 733, 775 *Launch Lab* 699, 725 *Inquiry Lab* 714-715, 750-751, 790-791, 832-833 **Science Skill Handbook** SR-2-SR-10		
S.IP.06.13 Use tools and equipment (spring scales, stop watches, meter sticks and tapes, models, hand lens, thermometer, models, sieves, microscopes) appropriate to scientific investigations.	**Student Edition:** **NATURE OF SCIENCE** NOS 16-NOS 18 *Inquiry Skill Practice* NOS 19 **MODULE A** *Inquiry Skill Practice* 57, 93, 124 *Inquiry Lab* 66-67, 100-101 *MiniLab* 80, 153 *Launch Lab* 126 **MODULE B** *Inquiry Skill Practice* 259 *Inquiry Lab* 282-283, 394-395 *MiniLab* 348	**Student Edition:** **Nature of Science** NOS 16-NOS 18 *Inquiry Lab* NOS 28-NOS 29 *Skill Practice* 19 **MODULE F** *Inquiry Lab* 74-75, 106-107 *Launch Lab* 158 *MiniLab* 30 *Skill Practice* 67 **MODULE G** *Inquiry Lab* 254-255 *Skill Practice* 245 **MODULE H** *Inquiry Lab* 472-473 *MiniLab* 422 *Skill Practice* 455	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 34-35, 76-77, 112-113, 146-147 *Launch Lab* 27, 70, 87, 123 *MiniLab* 11, 20, 57, 74, 89, 96 *Skill Practice* 25, 68, 101, 138 **MODULE L** *Lab* 186-187, 220-221, 262-263, 298-299 *Launch Lab* 161, 282 *MiniLab* 164, 209, 217, 242, 251 *Skill Practice* 175, 203, 247, 290 **MODULE M** *Lab* 404-405

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.13** Use tools and equipment (spring scales, stop watches, meter sticks and tapes, models, hand lens, thermometer, models, sieves, microscopes) appropriate to scientific investigations.	Continued from previous cell… **MODULE C** *Inquiry Lab* 440-441, 476-477, 512-513 *MiniLab* 492 *Inquiry Skill Practice* 494 *Launch Lab* 505 **MODULE D** *Launch Lab* 527 *MiniLab* 531, 611 *Inquiry Lab* 552-553 **MODULE E** *Launch Lab* 725, 761, 769, 777 *MiniLab* 765, 772 *Inquiry Lab* 790-791 **Science Skill Handbook** SR-7-SR-9 **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 17; DI NOS 17; GQ NOS 17; SCB NOS 2F **MODULE D** TA 541	Continued from previous cell… **MODULE I** *Inquiry Lab* 590-591, 626-627 *Launch Lab* 531 *MiniLab* 643 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 721 **Science Skill Handbook** SR6-SR9 **Teacher Edition:** **Nature of Science** NOS 16-NOS 17; DIF NOS 17; TT NOS 17; SCB NOS 2F	Continued from previous cell… **MODULE N** *Lab* 442-443, 478-479, 514-515 *Launch Lab* 419, 436 *MiniLab* 464, 503 *Skill Practice* 469 **MODULE O** *Lab* 554-555, 706-707 *MiniLab* 585 *Skill Practice* 545, 581, 613, 648, 659 **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28-NOS 29 **MODULE K** L 34-35, 112-113, 146-147, LL 27 **MODULE L** L 186-187, 220-221, 298-299 **MODULE M** L 404-405 **MODULE N** L 442-443, 478-479, 514-515 **MODULE O** L 554-555

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IP.06.14 Use metric measurement devices in an investigation.	**Student Edition:** **NATURE OF SCIENCE** NOS 12-NOS 15 **MODULE A** *Inquiry Skill Practice* 17, 57, 93, 156 *MiniLab* 51 *Inquiry Lab* 66-67, 100-101 **MODULE B** *Inquiry Skill Practice* 275 *MiniLab* 348 *Inquiry Lab* 394-395 **MODULE C** *Inquiry Skill Practice* 425, 494 *Inquiry Lab* 440-441, 476-477, 512-513 *Launch Lab* 451, 505 *MiniLab* 492 **MODULE D** *Launch Lab* 527, 607 *MiniLab* 531, 611 *Inquiry Lab* 552-553 **MODULE E** *Launch Lab* 725, 761, 769, 777 *MiniLab* 765, 772 *Inquiry Lab* 790-791 **Science Skill Handbook** SR-7-SR-9	**Student Edition:** **Nature of Science** NOS 16 *Inquiry Lab* NOS 28-NOS 29 *Skill Practice* 19 **MODULE F** *Launch Lab* 158, 199 *Skill Practice* 67 **MODULE H** *Inquiry Lab* 472-473 *MiniLab* 422 *Skill Practice* 455 **MODULE I** *Launch Lab* 486 *MiniLab* 643 *Skill Practice* 529 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 721 **Math Skill Handbook** SR-24 **Science Skill Handbook** SR6-SR9 **Teacher Edition:** **Nature of Science** NOS 16-NOS 17; DIF NOS 17; TT NOS 17	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 34-35, 76-77, 112-113, 146-147 *Launch Lab* 27, 87, 123 *MiniLab* 11, 20, 74, 89, 96 *Skill Practice* 25, 68, 101, 138 **MODULE L** *Lab* 186-187, 220-221, 262-263, 298-299 *MiniLab* 164, 209, 217, 242, 251 *Skill Practice* 175, 203, 247, 290 **MODULE N** *Lab* 442-443, 478-479, 514-515 *Launch Lab* 436 *MiniLab* 464, 503 *Skill Practice* 469 **MODULE O** *Lab* 554-555, 706-707 *MiniLab* 585 *Skill Practice* 581, 613, 648, 659 **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28-NOS 29

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	**Life Science Modules**	**Physical Science Modules**
Continued from previous cell… **S.IP.06.14** Use metric measurement devices in an investigation.	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** SCB NOS 2F; VL NOS 13, NOS 15 **MODULE D** TA 541		Continued from previous cell… **MODULE K** L 34-35, 76-77, 112-113, 146-147, LL 27 **MODULE L** L 186-187, 220-221 **MODULE N** L 442-443, 478-479, 514-515 **MODULE O** L 554-555
S.IP.06.15 Construct charts and graphs from data and observations.	**Student Edition:** **MODULE A** *Inquiry Skill Practice* 93, 124, 156 *Inquiry Lab* 100-101 *MiniLab* 128 **MODULE B** *Inquiry Skill Practice* 259 *MiniLab* 264, 348 *Inquiry Lab* 282-283 **MODULE C** *Inquiry Lab* 440-441, 476-477, 512-513 *MiniLab* 492 *Inquiry Skill Practice* 494	**Student Edition:** **Nature of Science** *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 138-139, 178-179 **MODULE G** *Skill Practice* 349 **MODULE H** *Nature of Science* 370-371 *MiniLab* 469 **MODULE I** *MiniLab* 526, 643 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 757	**Student Edition:** **MODULE K** *Lab* 34-35 *Skill Practice* 25, 101 **MODULE L** *Lab* 221, 262-263, 299 *MiniLab* 183, 251 **MODULE M** *Lab* 370-371, 405 **MODULE N** *Lab* 443, 479 **MODULE O** *MiniLab* 525 *Skill Practice* 613, 648

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.15** Construct charts and graphs from data and observations.	Continued from previous cell… **MODULE D** *Nature of Science* 522-533 *MiniLab* 523, 548, 611, 671 *Inquiry Lab* 552-553, 596-597, 674-675 *Launch Lab* 617, 669 **MODULE E** *Inquiry Lab* 714-715 *MiniLab* 772 *Inquiry Skill Practice* 775, 823 **Math Skill Handbook** SR-27-SR-28 **Teacher Edition:** **MODULE D** DI 523; GQ 522	Continued from previous cell… **Science Skill Handbook** SR27-SR28 **Teacher Edition:** **MODULE F** DIF 161 **MODULE H** DIF 371	Continued from previous cell… **Teacher Edition:** **MODULE K** L 34-35 **MODULE L** L 220B-221, 262-263, 299; SP 203 **MODULE M** L 370-371, 405 **MODULE N** L 442B-443, 478B-479 **MODULE O** ML 525

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IP.06.16 Identify patterns in data.	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Skill Practice* NOS 19 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *Nature of Science* 4-5 *MiniLab* 5, 51 *Launch Lab* 77 *Inquiry Lab* 100-101, 138-139, 166-167, 202-203 *Inquiry Skill Practice* 124 **MODULE B** 218-220, 237, 294, 309, 340 *MiniLab* 221, 264 *Launch Lab* 233 *Inquiry Skill Practice* 259, 304-305, 343 *Inquiry Lab* 352-353 **MODULE C** *Inquiry Lab* 440-441, 476-477, 512-513 *MiniLab* 492 *Inquiry Skill Practice* 469	**Student Edition:** **Nature of Science** *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 138-139, 178-179 *Skill Practice* 67, 168 **MODULE G** *Skill Practice* 349 **MODULE H** *Nature of Science* 370-371 *MiniLab* 371, 469 **MODULE I** *MiniLab* 526, 643 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 757 **Science Skill Handbook** SR27-SR28 **Teacher Edition:** **MODULE F** DIF 161 **MODULE H** DIF 371	**Student Edition:** **MODULE K** *Lab* 35, 76-77, 113 *Launch Lab* 27 *Skill Practice* 101 **MODULE L** *Lab* 187, 221, 262-263, 299 *MiniLab* 164, 251 *Skill Practice* 175, 203, 247, 290 **MODULE M** *Lab* 370-371, 405 **MODULE N** *Lab* 443, 479, 515 *Launch Lab* 436 *MiniLab* 464, 476 *Skill Practice* 469, 506 **MODULE O** *Lab* 554-555, 707 *Launch Lab* 609, 717 *MiniLab* 525, 585, 603 *Skill Practice* 581, 613, 648, 659, 697

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IP.06.16** Identify patterns in data.	Continued from previous cell… **MODULE D** *Inquiry Lab* 552-553, 596-597, 632-633, 674-675 *MiniLab* 577 *Inquiry Skill Practice* 659 **MODULE E** *MiniLab* 744 *Inquiry Lab* 750-751 *Inquiry Skill Practice* 775, 807 *Launch Lab* 809 **Teacher Edition:** **MODULE A** DI 5; GQ 4; VL 4 **MODULE B** GQ 294; VL 218, 219, 237, 294, 309, 341 **MODULE D** DI 523		Continued from previous cell… **Science Skill Handbook** SR-9 **Teacher Edition:** **MODULE K** LL 27 **MODULE L** L 187, 221, 262-263, 298B-299; SP 203 **MODULE M** L 370-371, 405 **MODULE N** L 442B-443, 478B-479, 514B-515 **MODULE O** L 554-555, 707; ML 525

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Inquiry Analysis and Communication			
K-7 Standard S.IA: *Develop an understanding that scientific inquiry and investigations require analysis and communication of findings, using appropriate technology*			
S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.			
S.IA.06.11 Analyze information from data tables and graphs to answer scientific questions.	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Skill Practice* NOS 19 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *MiniLab* 22 *Inquiry Skill Practice* 93, 124 *Inquiry Lab* 100-101, 202-203 **MODULE B** *MiniLab* 238, 264 *Inquiry Skill Practice* 259, 304-305, 369 *Inquiry Lab* 282-283 **MODULE C** *MiniLab* 423, 453, 492 *Inquiry Lab* 440-441, 476-477, 512-513 *Launch Lab* 487 **MODULE D** *Nature of Science* 522-523 *MiniLab* 523, 548, 611 *Inquiry Lab* 552-553 *Inquiry Skill Practice* 579, 659	**Student Edition:** **Nature of Science** *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 138-139, 178-179 **MODULE G** *Skill Practice* 349 **MODULE H** *Nature of Science* 370-371 *MiniLab* 371, 469 **MODULE I** *MiniLab* 526, 643 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 757 **Science Skill Handbook** SR27-SR28 **Teacher Edition:** **MODULE F** DIF 161 **MODULE H** DIF 371	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 35, 77, 113, 147 *Launch Lab* 27 *Skill Practice* 25, 101, 138 **MODULE L** *Lab* 186-187, 221, 262-263, 299 *Launch Lab* 161 *MiniLab* 164, 183, 251 *Skill Practice* 175, 203, 247, 254, 290 **MODULE M** *Lab* 404-405 **MODULE N** *Lab* 443, 479, 515 *Launch Lab* 436 *MiniLab* 464, 476 *Skill Practice* 469, 506

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IA.06.11** Analyze information from data tables and graphs to answer scientific questions.	Continued from previous cell… **MODULE E** *MiniLab* 772 *Inquiry Skill Practice* 775, 823 *Inquiry Lab* 790-791 **Math Skill Handbook** SR-27-SR-28 **Teacher Edition:** **MODULE A** DI 5, 163; VL 62 **MODULE B** VL 298; 314 **MODULE C** VL 413, 507 **MODULE D** ACT 613; VL 522, 541 **MODULE E** VL 764		Continued from previous cell… **MODULE O** *Lab* 554-555, 590-591, 706-707 *MiniLab* 525, 585, 603, 737 *Launch Lab* 609, 717 *Skill Practice* 545, 581, 613, 648, 659, 697 **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28-NOS 29 **MODULE K** L 35, 76B-77, 113, 146B-147, LL 27 **MODULE L** L 186-187, 221, 262-263, 298B-299; ML 183; SP 203 **MODULE M** L 404B-405 **MODULE N** L 442B-443, 478B-479, 515 **MODULE O** L 554-555, 706B-707; ML 525

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IA.06.12 Evaluate data, claims, and personal knowledge through collaborative science discourse.	**Student Edition:** **NATURE OF SCIENCE** NOS 10, NOS 27 #8 **MODULE A** *Inquiry Lab* 202-203 **MODULE B** *Inquiry Lab* 282-283 *Communicate Your Data* 395 **MODULE C** *Inquiry Skill Practice* 432 *Inquiry Lab* 440-441, 476-477, 512-513 **MODULE D** *Inquiry Lab* 596-597, 632-633, 674-675 *Inquiry Skill Practice* 651 **MODULE E** *It's Your Turn* 705 *Inquiry Lab* 714-715, 790-791, 832-833 **Science Skill Handbook** SR-2 **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 11; GQ NOS 10; IM NOS 2H; VL NOS 10 **MODULE A** DI 113; IM 38H, 108H	**Student Edition:** **NATURE OF SCIENCE** NOS 10-11 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 106-107, 178-179 **MODULE G** *Inquiry Lab* 254-255, 360-361 *Green Science* 339 **MODULE H** *Inquiry Lab* 436-437, 472-473 **MODULE I** *Inquiry Lab* 590-591, 626-627 *Science & Society* 539 **MODULE J** *Inquiry Lab* 730-731, 838-839 *Skill Practice* 829 **SCIENCE SKILL HANDBOOK** SR-10 **Teacher Edition:** **NATURE OF SCIENCE** NOS 10	**Student Edition:** **MODULE K** *Lab* 35, 77, 147 **MODULE L** *Lab* 187, 221, 263, 299 **MODULE M** *Lab* 334-335, 371 **MODULE N** *Inquiry Extension* 443 *Lab* 479 **MODULE O** *Lab* 591, 625 **Teacher Edition:** **MODULE K** L 35, 77, 147 **MODULE L** L 187, 221, 262B-263, 299 **MODULE M** L 334-335, 371 **MODULE N** L 478B-479 **MODULE O** L 591

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IA.06.12** Evaluate data, claims, and personal knowledge through collaborative science discourse.	Continued from previous cell… **MODULE B** DI 221; IM 214H, 290H **MODULE C** IM 406H, 484H **MODULE D** IM 560H, 604H **MODULE E** IM 686H, 722H		
S.IA.06.13 Communicate and defend findings of observations and investigations using evidence.	**Student Edition:** **NATURE OF SCIENCE** NOS 7 *Inquiry Skill Practice* NOS 19 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *Inquiry Skill Practice* 17 *Inquiry Lab* 66-67, 100-101, 138-139, 166-167, 202-203 *MiniLab* 153 **MODULE B** *Inquiry Lab* 282-283, 316-317, 352-353, 394-395 **MODULE C** *Inquiry Lab* 440-441, 476-477, 512-513 *Inquiry Skill Practice* 494	**Student Edition:** **NATURE OF SCIENCE** NOS 6 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 106-107, 178-179 **MODULE G** *Inquiry Lab* 254-255, 360-361 **MODULE H** *Inquiry Lab* 472-473 **MODULE I** *Inquiry Lab* 590-591, 626-627 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 829 **SCIENCE SKILL HANDBOOK** SR-10	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 29 **MODULE K** *Lab* 35, 113, 147 **MODULE L** *Lab* 187, 221, 263, 299 **MODULE M** *Lab* 334-335, 371, 405 **MODULE N** *Lab* 443, 479, 515 *Launch Lab* 436 *MiniLab* 476 **MODULE O** *Lab* 555, 591, 707, 743 *Launch Lab* 609 *MiniLab* 585 *Skill Practice* 613, 648, 659

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IA.06.13** Communicate and defend findings of observations and investigations using evidence.	Continued from previous cell… **MODULE D** *Inquiry Lab* 552-553, 596-597, 632-633, 674-675 *Inquiry Skill Practice* 579 *MiniLab* 611 **MODULE E** *Inquiry Lab* 714-715, 750-751, 790-791 *Inquiry Skill Practice* 733 **Science Skill Handbook** SR-10	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** NOS 7	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** L NOS 29 **MODULE K** L 35, 113, 147 **MODULE L** L 187, 221, 263, 299 **MODULE M** L 334-335, 371, 405 **MODULE N** L 443, 479, 515 **MODULE O** L 555, 591, 707, 743

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IA.06.14 Draw conclusions from sets of data from multiple trials of a scientific investigation.	**Student Edition:** **NATURE OF SCIENCE** NOS 7 *Inquiry Skill Practice* NOS 19 **MODULE A** *Inquiry Lab* 100-101, 166-167, 202-203 **MODULE B** *Inquiry Lab* 282-283 **MODULE C** *Inquiry Lab* 440-441, 512-513 *Inquiry Skill Practice* 494 *Launch Lab* 505 **MODULE D** *Inquiry Lab* 552-553, 596-597, 632-633 *MiniLab* 611 **MODULE E** *Inquiry Lab* 714-715, 750-751 *Inquiry Skill Practice* 733, 823 **Teacher Edition:** **NATURE OF SCIENCE** VL NOS 7	**Student Edition:** **NATURE OF SCIENCE** NOS 14 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** *Inquiry Lab* 74-75, 178-179 *Launch Lab* 199 *MiniLab* 12 **MODULE H** *Inquiry Lab* 472-473 *Skill Practice* 455 **MODULE I** *MiniLab* 500, 562 *Skill Practice* 575 **MODULE J** *Inquiry Lab* 730-731 *Skill Practice* 721 **Teacher Edition:** **NATURE OF SCIENCE** NOS 7	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 35, 113, 147 *Skills Practice* 25, 101 **MODULE L** *Lab* 187, 221, 299 *Skill Practice* 175, 247, 290 **MODULE N** *Lab* 443, 479, 515 *Skill Practice* 469, 476, 506 **MODULE O** *Lab* 555, 625, 707 *Launch Lab* 609, 717 *MiniLab* 525, 585, 603, 737 *Skill Practice* 613, 648, 659, 697 **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28B-NOS 29 **MODULE K** L 35, 146B-147 **MODULE L** L 186B-187, 221, 299 **MODULE N** L 443, 478B-479, 515 **MODULE O** L 554B-555, 706B-707; ML 525

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.IA.06.15 Use multiple sources of information to evaluate strengths and weaknesses of claims, arguments, or data.	**Student Edition:** **NATURE OF SCIENCE** NOS 10, NOS 20-NOS 27 *Communicate Your Results* NOS 29 **MODULE B** 216-222, 224-230, 232-241 *MiniLab* 221 *Inquiry Lab* 316-317 **MODULE C** *Communicate Your Results* 441, 513 *Inquiry Lab* 476-477 **MODULE D** *Inquiry Lab* 596-597, 632-633, 674-675 *Inquiry Skill Practice* 651 **MODULE E** *It's Your Turn* 705 *Inquiry Lab* 714-715 *Communicate Your Results* 791 **Science Skill Handbook** SR-2 **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 11; VL NOS 10 **MODULE A** DI 113	**Student Edition:** **NATURE OF SCIENCE** NOS 10-NOS 11, NOS 20-NOS 27 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** 214 *Inquiry Lab* 74-75, 178-179 *Launch Lab* 9 **MODULE G** *Inquiry Lab* 254-255, 360-361 *Green Science* 275, 339 **MODULE H** *Inquiry Lab* 472-473 **MODULE I** *How It Works* 495 *Inquiry Lab* 590-591 *Science & Society* 539 **MODULE J** 825 *Inquiry Lab* 766-767, 838-839 *Skill Practice* 829 **Teacher Edition:** **NATURE OF SCIENCE** NOS 10 **MODULE F** EX 214	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Extension* NOS 29 *Lab* NOS 29 **MODULE K** *Inquiry Extension* 113 *Lab* 35 **MODULE L** *Inquiry Extension* 187 *Lab* 221, 263 *MiniLab* 183 **MODULE M** *Lab* 334-335, 371 **MODULE N** *Lab* 443, 479, 515 *Launch Lab* 436 **MODULE O** *Lab* 625 **Teacher Edition:** **NATURE OF SCIENCE** IE NOS 29; L NOS 29 **MODULE K** IE 113; L 35 **MODULE L** IE 187; L 221, 263; ML 183 **MODULE M** L 334-335, 371

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.IA.06.15** Use multiple sources of information to evaluate strengths and weaknesses of claims, arguments, or data.	Continued from previous cell… **MODULE B** DI 237; GQ 229	Continued from previous cell… **MODULE G** EX 275, 339 **MODULE J** EX 825	Continued from previous cell… **MODULE N** L 443, 479, 515 **MODULE O** L 591, 625; SP 613
Reflection and Social Implications			
K-7 Standard S.RS: *Develop an understanding that claims and evidence for their scientific merit should be analyzed. Understand how scientists decide what constitutes scientific knowledge. Develop an understanding of the importance of reflection on scientific knowledge and its application to new situations to better understand the role of science in society and technology.*			
S.RS.M.1 Reflecting on knowledge is the application of scientific knowledge to new and different situations. Reflecting on knowledge requires careful analysis of evidence that guides decision-making and the application of science throughout history and within society.			
S.RS.06.11 Evaluate the strengths and weaknesses of claims, arguments, and data.	**Student Edition:** **NATURE OF SCIENCE** NOS 10, NOS 20-NOS 27 *Inquiry Lab* NOS 28-NOS 29 **MODULE A** *Inquiry Extension* 101 **MODULE B** 216-222, 224-230, 232-241 *Inquiry Lab* 282-283, 316-317 **MODULE C** *Inquiry Lab* 440-441, 476-477 *Communicate Your Results* 513	**Student Edition:** **NATURE OF SCIENCE** NOS 10-NOS 11, NOS 20-NOS 27 *Inquiry Lab* NOS 28-NOS 29 **MODULE F** 214 *Inquiry Lab* 74-75, 178-179 **MODULE G** *Inquiry Lab* 254-255, 360-361 *Green Science* 275, 339 **MODULE H** *Inquiry Lab* 472-473	**Student Edition:** **NATURE OF SCIENCE** NOS 7, NOS 10, NOS 23 **MODULE K** *It's Your Turn* 52 **MODULE M** *It's Your Turn* 361 **MODULE N** *It's Your Turn* 459 **Teacher Edition:** **NATURE OF SCIENCE** AQ NOS 23; CR NOS 7; ESI NOS 10; TT NOS 11

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.11** Evaluate the strengths and weaknesses of claims, arguments, and data.	Continued from previous cell… **MODULE D** *Inquiry Lab* 596-597, 632-633, 674-675 *Inquiry Skill Practice* 651 **MODULE E** *It's Your Turn* 705 *Inquiry Lab* 714-715 *Communicate Your Results* 791 **Science Skill Handbook** SR-2 **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 11; GQ NOS 10, NOS 20, NOS 25, NOS 27; VL NOS 10, NOS 23 **MODULE A** DI 113 **MODULE B** DI 219, 221; SCB 214E	Continued from previous cell… **MODULE I** *Inquiry Lab* 590-591 *Science & Society* 539 **MODULE J** 825 *Inquiry Lab* 766-767, 838-839 *Skill Practice* 829 **Science Skill Handbook** SR-2 **Teacher Edition:** **NATURE OF SCIENCE** NOS 10 **MODULE F** EX 214 **MODULE G** EX 275, 339 **MODULE H** RS 415 **MODULE J** EX 825	Continued from previous cell… **MODULE K** IYT 52 **MODULE M** IYT 361 **MODULE N** IYT 459

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.12 Describe limitations in personal and scientific knowledge.	**Student Edition:** **MODULE A** *Get Ready to Read* 39, 75, 109, 175 **MODULE B** *Get Ready to Read* 251, 291, 361 **MODULE C** *Get Ready to Read* 407, 449 **MODULE D** *Get Ready to Read* 525, 561, 605 **MODULE E** *Get Ready to Read* 723, 759, 799 **Teacher Edition:** **NATURE OF SCIENCE** IM NOS 2H **MODULE A** IM 38H, 74H, 108H, 146H **MODULE B** GQ 214; IM 214H, 250H, 290H, 324H **MODULE C** IM 406H, 448H, 484H **MODULE D** IM 524H, 560H, 604H **MODULE E** IM 686H, 722H, 758H, 798H	**Student Edition:** **MODULE F** 189, 192 *Get Ready to Read* 7, 114 **MODULE G** *Get Ready to Read* 229, 263 **MODULE H** *Get Ready to Read* 409, 445 **MODULE I** *Get Ready to Read* 485 **MODULE J** *Get Ready to Read* 705 **Teacher Edition:** **NATURE OF SCIENCE** IM NOS 2H **MODULE F** IM 6H, 40H, 186H **MODULE G** IM 228H, 294H **MODULE H** IM 372H, 408H **MODULE H** IM 484H, 520H **MODULE J** IM 704H, 738H	**Student Edition:** **MODULE M** 314 *Green Science* 388 **MODULE O** *How It Works* 607 **Science Skill Handbook** SR-10 **Teacher Edition:** **NATURE OF SCIENCE** IM NOS 2H; TT NOS 7 **MODULE M** Ext 388 **MODULE O** Ext 607

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.13 Identify the need for evidence in making scientific decisions.	**Student Edition:** **NATURE OF SCIENCE** NOS 6-NOS 7, NOS 20-NOS 27 **MODULE A** 49-50 *MiniLab* 22, 153, 179 *Inquiry Skill Practice* 57 *Launch Lab* 77, 158 *Inquiry Lab* 100-101, 202-203 **MODULE B** *Inquiry Lab* 282-283, 316-317 *Inquiry Skill Practice* 231 **MODULE C** *Inquiry Lab* 440-441, 476-477, 512-513 *Launch Lab* 496 *MiniLab* 509 **MODULE D** *Inquiry Skill Practice* 544, 623, 651, 659 *Inquiry Lab* 596-597, 632-633, 674-675 *MiniLab* 671 **MODULE E** *Inquiry Lab* 714-715, 750-751 *Inquiry Skill Practice* 775 *MiniLab* 778 *Launch Lab* 817	**Student Edition:** **NATURE OF SCIENCE** NOS 6-NOS 7, NOS 20-NOS 27 **MODULE G** *Inquiry Lab* 360-361 *Skill Practice* 245 **MODULE H** *Inquiry Lab* 400-401 **MODULE I** *Inquiry Lab* 590-591 *Skill Practice* 609 **MODULE J** 825, 831-836 *Inquiry Lab* 838-839 *Science & Society* 711 **Teacher Edition:** **NATURE OF SCIENCE** NOS 20, NOS 23, NOS 24, NOS 25; SCB NOS 2F **MODULE F** CIS 175 **MODULE J** EX 711, 825	**Student Edition:** **NATURE OF SCIENCE** NOS 7

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.13** Identify the need for evidence in making scientific decisions.	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** GQ NOS 20, NOS 23, NOS 24, NOS 25; SCB NOS 2F **MODULE A** GQ 50 **MODULE B** GQ 210		
S.RS.06.14 Evaluate scientific explanations based on current evidence and scientific principles.	**Student Edition:** **NATURE OF SCIENCE** NOS 20-NOS 27 **MODULE A** 49-50 **MODULE B** 216-222, 232-241, 249 #13-#15, 327-328 **MODULE C** 504-511 *Science and Society* 457 **MODULE E** 830 **TEACHER EDITION:** **NATURE OF SCIENCE** GQ NOS 27 **MODULE A** GQ 50	**NATURE OF SCIENCE** NOS 20-NOS 27 **MODULE F** 209-214 **MODULE G** *Green Science* 275, 339 **MODULE I** *Science & Society* 539 **MODULE J** 825 *Green Science* 821 **Teacher Edition:** **NATURE OF SCIENCE** NOS 26-NOS 27 **MODULE G** EX 214 **MODULE G** EX 275, 339	**Student Edition:** **MODULE L** *Green Science* 167 *MiniLab* 157 **MODULE M** 322 *It's Your Turn* 361 *Lab* 334-335 **MODULE N** *It's Your Turn* 459 **Teacher Edition:** **MODULE L** Ext 167; ML 157 **MODULE M** IYT 361; L 334-335 **MODULE N** IYT 459

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.14** Evaluate scientific explanations based on current evidence and scientific principles.	Continued from previous cell… **MODULE B** DI 237, 329; SCB 214E-F **MODULE C** DI 507; GQ 506	Continued from previous cell… **MODULE I** EX 539 **MODULE J** EX 821, 825	Continued from previous cell…
S.RS.06.15 Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Lab* 28-29 **MODULE A** *Launch Lab* 9 *Inquiry Skill Practice* 17, 93, 156 *Inquiry Lab* 30-31, 66-67, 100-101, 166-167 *MiniLab* 98, 115, 153 **MODULE B** *MiniLab* 227, 348, 375 *Launch Lab* 233, 253 *Inquiry Lab* 242-243, 282-283 *Inquiry Skill Practice* 259, 343 **MODULE C** *Nature of Science* 404-405 *MiniLab* 405, 423 *Inquiry Skill Practice* 425, 469 *Launch Lab* 427 *Inquiry Lab* 440-441, 476-477	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Lab* NOS 28-NOS 29 *Skill Practice* NOS 25 **MODULE F** *Inquiry Lab* 74-75, 106-107, 178-179 *Launch Lab* 51, 61 *MiniLab* 63, 119, 172 *Nature of Science* 4-5 *Skill Practice* 67, 197 **MODULE G** *Inquiry Lab* 254-255, 360-361 *Launch Lab* 333 *MiniLab* 233, 356 **MODULE H** *Inquiry Lab* 472-473 *Launch Lab* 393 *MiniLab* 422, 458 *Skill Practice* 391	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 34-35, 76-77, 112-113, 146-147 *Launch Lab* 27, 45, 54, 62, 70, 87, 95, 103, 123, 132, 140 *MiniLab* 57, 64, 74, 89, 96, 109, 125, 134, 142 *Skill Practice* 25, 60, 68, 101, 138 **MODULE L** *Lab* 186-187, 220-221, 262-263, 298-299 *Launch Lab* 161, 169, 177, 197, 205, 215, 231, 249, 256, 273, 282, 292 *MiniLab* 164, 173, 201, 209, 217, 232, 242, 251, 258, 277, 288, 295 *Skill Practice* 175, 203, 247, 254, 290

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.15** Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.	Continued from previous cell… **MODULE D** *Launch Lab* 527, 607 *MiniLab* 541, 548 *Inquiry Skill Practice* 544, 579 *Inquiry Lab* 552-553, 596-597 **MODULE E** *Launch Lab* 689, 699 *MiniLab* 691, 710, 765 *Inquiry Skill Practice* 697, 733 *Inquiry Lab* 714-715, 750-751, 790-791 **Teacher Edition:** **NATURE OF SCIENCE** ACT NOS 7; DI NOS 9 **MODULE A** ACT 89; DI 11, 89, 97, 121; TA 165 **MODULE B** ACT 227, 277, 381; DI 221, 239 **MODULE C** CA 429; DI 405, 437, 455; GQ 404 **MODULE D** ACT 655; DI 529, 539, 613 **MODULE E** ACT 763; DI 727, 781, 803	Continued from previous cell… **MODULE I** *Inquiry Lab* 590-591, 626-627, 662-663 *Launch Lab* 487, 585 *MiniLab* 545, 690 *Skill Practice* 565 **MODULE J** *Inquiry Lab* 730-731 *Launch Lab* 787 *MiniLab* 826 *Skill Practice* 829 **Teacher Edition:** **NATURE OF SCIENCE** NOS 7 **MODULE F** DIF 53, 55, 173; TA 55 **MODULE G** DIF 315, 317; SCB 228H **MODULE H** DIF 389, 425; SCB 372H **MODULE I** DIF 491, 533; SCB 520H **MODULE J** DIF 491, SCB 520H	Continued from previous cell… **MODULE M** *Lab* 334-335, 370-371, 404-405 *Launch Lab* 313, 326, 345, 355, 363, 381, 390, 398 *MiniLab* 308, 320, 329, 351, 359, 368, 386, 394, 401 *Skill Practice* 353, 396 **MODULE N** *Lab* 442-443, 478-479, 514-515 *Launch Lab* 419, 430, 436, 453, 461, 471, 489, 499, 508 *MiniLab* 423, 440, 456, 464, 476, 494, 503 *Skill Practice* 428, 469, 506 **MODULE O** *Lab* 554-555, 590-591, 624-625, 668-669, 706-707, 742-743 *Launch Lab* 529, 539, 547, 565, 573, 583, 601, 609, 615, 635, 643, 650, 661, 679, 690, 699, 717, 727, 735 *MiniLab* 525, 531, 541, 549, 569, 577, 585, 603, 620, 638, 645, 652, 663, 682, 692, 704, 721, 730, 737 *Skill Practice* 545, 581, 613, 648, 659, 697, 733

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.15** Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.			Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** L NOS 28-NOS 29 **MODULE K** L 34-35, 76-77, 112-113, 146-147, LL 103; ML 125; SP 25, 101, 138 **MODULE L** L 186-187, 220-221, 262-263, 298-299; LL 169; SP 175, 247, 290 **MODULE M** L 334-335, 370-371, 404-405; LL 363, 398; ML 308, 351, 386; SP 353, 396 **MODULE N** L 442-443, 478-479, 514-515; SP 428, 469 **MODULE O** L 554-555, 590-591, 624-625, 668-669, 706-707, 742-743; LL 547; ML 525; SP 581, 613, 648, 659, 697, 733

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.16 Design solutions to problems using technology.	**Student Edition:** **MODULE C** *Inquiry Lab* 476-477 **MODULE D** 679 #12, #17 *It's Your Turn* 667 **MODULE E** *MiniLab* 685 *Inquiry Skill Practice* 697 *Inquiry Lab* 714-715 **Teacher Edition:** **MODULE D** ACT 647; IM 640H	**Student Edition:** **NATURE OF SCIENCE** *Inquiry Lab* NOS 28-NOS 29 **MODULE G** *Nature of Science* 226-227 *Inquiry Lab* 254-255 *MiniLab* 227 **MODULE I** *Skill Practice* 609 **Teacher Edition:** **NATURE OF SCIENCE** DIF NOS 23	**Student Edition:** **NATURE OF SCIENCE** *Lab* NOS 28-NOS 29 **MODULE K** *Lab* 146-147 **MODULE L** *Lab* 220-221 *MiniLab* 157 **MODULE O** *Lab* 706-707, 742-743 **Teacher Edition:** **NATURE OF SCIENCE** DI NOS 23; L NOS 28-NOS 29 **MODULE K** L 146-147 **MODULE L** DI 157; L 220-221; ML 157 **MODULE O** L 706-707, 742-743

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.17 Describe the effect humans and other organisms have on the balance of the natural world.	**Student Edition:** **MODULE A** 158-161, 198 *Table 1* 151 **MODULE C** 410, 433-439, 445 #15, 504-511 **MODULE D** 546-551, 588-595, 621, 630 *MiniLab* 548, 594 *Science and Society* 615 **Teacher Edition:** **MODULE A** FF 151; GQ 198; SCB 146F; VL 161 **MODULE C** CD 437; DI 435; GQ 435, 506, 507 **MODULE D** DI 591; GQ 548, 549, 590, 621, 630; TD 549; VL 592	**Student Edition:** **MODULE G** 239-241, 268, 281-282, 335 *Green Science* 275, 339 *Launch Lab* 239 **MODULE J** 751, 753, 778, 779, 780, 781, 782, 783, 788, 789, 790, 791, 792, 800, 823-827 *Careers in Science* 746 *Launch Lab* 749 *Science and Society* 794 *Skill Practice* 829 **Teacher Edition:** **MODULE G** DIF 269, 281; EX 239, 339 **MODULE J** DIF 779; EX 747, 779; SCB 738E; TD 779	**Student Edition:** **MODULE L** 156-157, 179-182 *Green Science* 167 *Table 2* 184 **MODULE N** *Inquiry* 470 **Teacher Edition:** **MODULE L** DI 179; E 179-182, 184; Ext 167; SCB 158F; T 156; TT 179 **MODULE N** I 470; TT 477

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.18 Describe what science and technology can and cannot reasonably contribute to society.	**Student Edition:** **NATURE OF SCIENCE** NOS 11 **MODULE A** 24-28 **MODULE C** 471-474, 509 **MODULE E** 703 *Nature of Science* 684-685 *How It Works* 705 **Teacher Edition:** **NATURE OF SCIENCE** GQ NOS 11; SCB NOS 2E **MODULE A** FF 27; GQ 24, 26, 28; TD 27 **MODULE C** GQ 474, 509 **MODULE E** DI 685; GQ 684, 703; VL 684	**Student Edition:** **NATURE OF SCIENCE** NOS 11, NOS 20-NOS 27 **MODULE F** *Science and Society* 95 **MODULE G** *Green Science* 275 *Nature of Science* 226-227 **MODULE I** *How It Works* 495 *Science & Society* 619 **MODULE J** 818-819 *Green Science* 821 **Teacher Edition:** **NATURE OF SCIENCE** NOS 10 **MODULE I** DIF 227; NOS 226 **MODULE I** EX 495	**Student Edition:** **NATURE OF SCIENCE** NOS 11 **MODULE L** *Nature of Science* 156-157 **MODULE O** *Science and Society* 641 **Teacher Edition:** **NATURE OF SCIENCE** SCAAQ NOS 11; TT NOS 11 **MODULE L** T 156 **MODULE O** Ext 641

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
S.RS.06.19 Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.	**Student Edition:** **NATURE OF SCIENCE** NOS 20-NOS 27 **MODULE A** *Unit 1* 2-3 *Careers in Science* 47, 85, 117 **MODULE B** 216-222, 328 *Unit 2* 210-211 *Careers in Science* 223, 335, 385 **MODULE C** *Unit 3* 402-403 *Careers in Science* 416, 503 **MODULE D** *Unit 4* 520-521 *Careers in Science* 535, 571 **MODULE E** *Unit 5* 682-683 *Careers in Science* 767, 783 **Teacher Edition:** **MODULE A** CD 159 **MODULE B** CD 301; DI 329; FF 221; RWS 271 **MODULE D** GQ 520	**Student Edition:** **NATURE OF SCIENCE** NOS 4, NOS 9, NOS 20-NOS 27 **MODULE F** 2-3, 19-20, 27, 43-44, 149-153, 171, 199-202 *Careers in Science* 207 *Science & Society* 157 **MODULE G** 224-225 **MODULE H** 368-369 **MODULE I** 480-481, 602-603 *Science & Society* 619, 681 **MODULE J** 700-701 *Nature of Science* 702-703 **Teacher Edition:** **MODULE F** DIF 45, 201; EX 27; SCB 40E, 146E; TL 2 **MODULE G** TL 224 **MODULE H** TL 368	**Student Edition:** **NATURE OF SCIENCE** NOS 4 **MODULE K** 2-3 *Science and Society* 93 **MODULE L** 154-155 *Green Science* 167 *Nature of Science* 156-157 **MODULE M** 306-307, 313-322, 330, 346-347 *Figure* 1 313 *Lab* 334-335 *Science and Society* 324 *Table 1* 314 **MODULE N** 412-413, 424 *Science and Society* 497 **MODULE O** 522-523 *Careers in Science* 537 *How It Works* 571, 607 *Science and Society* 725

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Continued from previous cell… **S.RS.06.19** Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.	Continued from previous cell… **MODULE E** CD 811; GQ 682	Continued from previous cell… **Teacher Edition:** **MODULE I** DIF 603; TL 480 **MODULE J** DIF 703; TL 700	Continued from previous cell… **Teacher Edition:** **NATURE OF SCIENCE** TT NOS 9, NOS 23; US NOS 4 **MODULE K** Ext 93; TL 2 **MODULE L** Ext 167, 280; T 156; TL 154; TT 217, 219 **MODULE M** DI 315, 321; E 314-322, 330, 346-347; EIAM 313; Ext 324; L 334-335; TL 306; TT 315, 321, 383 **MODULE N** Ext 497; TL 412; TT 425 **MODULE O** Ext 537, 571, 607, 725; TL 522

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
PHYSICAL SCIENCE—Energy			
K-7 Standard P.EN: *Develop an understanding that there are many forms of energy (such as heat, light, sound, and electrical) and that energy is transferable by convection, conduction, or radiation. Understand energy can be in motion, called kinetic; or it can be stored, called potential. Develop an understanding that as temperature increases, more energy is added to a system. Understand nuclear reactions in the sun produce light and heat for the Earth.*			
P.EN.M.1 Kinetic and Potential Energy- Objects and substances in motion have kinetic energy. Objects and substances may have potential energy due to their relative positions in a system. Gravitational, elastic, and chemical energy are all forms of potential energy.			
P.EN.06.11 Identify kinetic or potential energy in everyday situations (for example: stretched rubber band, objects in motion, ball on a hill, food energy).	See the Physical Science Modules.	**Student Edition:** **MODULE F** 14, 47 **MODULE G** 336 **MODULE I** 523 *Launch Lab* 523 **MODULE J** 723-727, 761 **Teacher Edition:** **MODULE G** TD 337	**Student Edition:** **MODULE L** 154-155, 162-163, 197-198, 282-283 *Figure 2* 162, 198 *Figure 3* 163 *Figure 8* 283 *Lesson 1 Review* 166 *MiniLab* 173 **Teacher Edition:** **MODULE L** DI 163, 283; E 162-163, 198, 283; EM 154; KPE 197, 282; SCB 158E; TT 163

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
P.EN.06.12 Demonstrate the transformation between potential and kinetic energy in simple mechanical systems (for example: roller coasters, pendulums).	See the Physical Science Modules.	See the Physical Science Modules.	**Student Edition:** **MODULE L** 154-155, 170-173, 197-198 *Chapter 5 Review* 190-191 #2-#3, #7, #13 *Figure 1* 197 *Figure 2* 198 *Figure 6* 170 *Figure 7* 171 *Figure 8* 283 *Lesson 2 Review* 174 *MiniLab* 173 *Skill Practice* 175 **Teacher Edition:** **MODULE L** DI 165, 173; E 170-173, 198, 283; EM 154; KPE 197; SCB 158E; TT 163, 199

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
P.EN.M.4 Energy Transfer- Energy is transferred from a source to a receiver by radiation, conduction, and convection. When energy is transferred from one system to another, the quantity of energy before the transfer is equal to the quantity of energy after the transfer. *			
P.EN.06.41 Explain how different forms of energy can be transferred from one place to another by radiation, conduction, or convection.	**Student Edition:** **MODULE B** 238-240, 241 #6 *MiniLab* 238 **MODULE C** 417-423, 424 #5, 447 #8 *Inquiry Skill Practice* 425 *Inquiry Lab* 440-441 **MODULE D** 585 *MiniLab* 585 **Teacher Edition:** **MODULE B** DI 239; GQ 238; VL 239 **MODULE C** DI 421; GQ 421, 422; VL 421	**Student Edition:** **MODULE J** 714, 723 *Launch Lab* 723 **Teacher Edition:** **MODULE J** EX 714; FT 723	**Student Edition:** **MODULE L** 205-206, 210-211 *Chapter 6 Review* 224-225 #6, #12, #13, #15 *Figure 7* 206 *Figure 12* 210 *Figure 13* 211 *Lesson 2 Review* 212 **Teacher Edition:** **MODULE L** DI 211; E 206, 210-211; HTET 205; R 205; SCB 194E-194F; TT 211

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
P.EN.06.42 Illustrate how energy can be transferred while no energy is lost or gained in the transfer.	**Student Edition:** **MODULE C** 418-420 **Teacher Edition:** **MODULE C** VL 420	**Student Edition:** **MODULE J** 723, 728 **Teacher Edition:** **MODULE J** EX 723	**Student Edition:** **MODULE L** 170-171, 288 *Figure 6* 170 *Figure 7* 171 *Figure 14* 288 *Lesson 2 Review* 174 #1 **MODULE N** 436-437 *Figure 9* 437 **Teacher Edition:** **MODULE L** DI 173; E 170-171, 288 **MODULE N** E 437

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Changes in Matter			
K-7 Standard P.CM: *Develop an understanding of changes in the state of matter in terms of heating and cooling, and in terms of arrangement and relative motion of atoms and molecules. Understand the differences between physical and chemical changes. Develop an understanding of the conservation of mass. Develop an understanding of products and reactants in a chemical change.*			
P.CM.M.1 Changes in State- Matter changing from state to state can be explained by using models which show that matter is composed of tiny particles in motion. When changes of state occur, the atoms and/or molecules are not changed in structure. When the changes in state occur, mass is conserved because matter is not created or destroyed.			
P.CM.06.11 Describe and illustrate changes in state, in terms of the arrangement and relative motion of the atoms or molecules.	**Student Edition:** **MODULE D** 531-533, 540-541 *Inquiry Skill Practice* 544 **Teacher Edition:** **MODULE D** DI 541; GQ 531; SCB 524E-F; VL 540	**Student Edition:** **MODULE J** 713-714 *Inquiry* 712 *Launch Lab* 713 **Teacher Edition:** **MODULE J** EX 713; FT 712	**Student Edition:** **MODULE L** 274-278, 282-288 *Concepts in Motion* 274 *Figure 1* 274 *Figure 2* 275 *Figure 4* 276 *Figure 6* 277 *Figure 7* 278 *Figure 8* 283 *Figure 9* 284 *Figure 10 & 11* 285 *Figure 13* 287 *Inquiry* 270 *Lesson 1 Review* 279 *The Big Idea* 270 **Teacher Edition:** **MODULE L** DI 283, 285; E 274-278, 283; I 270; IM 270H; IWB 270D; KPE 282; SCB 270E-270F; TBI 270; TT 277, 279, 285

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
P.CM.06.12 Explain how mass is conserved as a substance changes from state to state in a closed system. *	**Student Edition:** **MODULE A** 114-115 **MODULE B** 257 **MODULE C** 455 **Teacher Edition:** **MODULE A** GQ 114 **MODULE B** VL 257 **MODULE C** GQ 455	The following pages can be used to meet this standard. **Student Edition:** **MODULE J** 713-718 *Inquiry* 712 *Launch Lab* 713 **Teacher Edition:** **MODULE J** EX 713; FT 712	**Student Edition:** **MODULE L** 288 *MiniLab* 288 **Teacher Edition:** **MODULE L** E 288; TT 289

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
LIFE SCIENCE—Organization of Living Things			
K-7 Standard L.OL: *Develop an understanding that plants and animals (including humans) have basic requirements for maintaining life which include the need for air, water, and a source of energy. Understand that all life forms can be classified as producers, consumers, or decomposers as they are all part of a global food chain where food/energy is supplied by plants which need light to produce food/energy. Develop an understanding that plants and animals can be classified by observable traits and physical characteristics. Understand that all living organisms are composed of cells and they exhibit cell growth and division. Understand that all plants and animals have a definite life cycle, body parts, and systems to perform specific life functions.*			
L.OL.M.5 Producers, Consumers, and Decomposers – Producers are mainly green plants that obtain energy from the sun by the process of photosynthesis. All animals, including humans, are consumers that meet their energy needs by eating other organisms or their products. Consumers break down the structures of the organisms they eat to make the materials they need to grow and function. Decomposers, including bacteria and fungi, use dead organisms or their products to meet their energy needs. *			
L.OL.06.51 Classify producers, consumers, and decomposers based on their source of food (the source of energy and building materials). *	**Student Edition:** **MODULE D** 528 **Teacher Edition:** **MODULE D** GQ 528	**Student Edition:** **MODULE J** 724-725, 760 *MiniLab* 725 **Teacher Edition:** **MODULE J** FT 725; SCB 704F	**Teacher Edition:** **MODULE L** TT 437
L.OL.06.52 Distinguish between the ways in which consumers and decomposers obtain energy.	**Student Edition:** **MODULE D** 528 *Careers in Science* 571 **Teacher Edition:** **MODULE D** BI 571; GQ 528	**Student Edition:** **MODULE J** 724-725, 726, 760 **Teacher Edition:** **MODULE J** DIF 725; EX 724-725, 760; IM 738H; SCB 704F	This standard can be incorporated into a classroom discussion with Chapter 5 Energy and Energy Resources. Also see the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Ecosystems			
K-7 Standard L.EC: *Develop an understanding of the interdependence of the variety of populations, communities and ecosystems, including those in the Great Lakes region. Develop an understanding of different types of interdependence and that biotic (living) and abiotic (non-living) factors affect the balance of an ecosystem. Understand that all organisms cause changes, some detrimental and others beneficial, in the environment where they live.*			
L.EC.M.1 Interactions of Organisms- Organisms of one species form a population. Populations of different organisms interact and form communities. Living communities and nonliving factors that interact with them form ecosystems.			
L.EC.06.11 Identify and describe examples of populations, communities, and ecosystems including the Great Lakes region. *	**Student Edition:** **MODULE D** 568, 628-629 *Careers in Science* 571 *It's Your Turn* 615 **Teacher Edition:** **MODULE D** BI 571; GQ 568; TA 569	**Student Edition:** **MODULE J** 707, 742, 759-760, 776, 787-793 *Inquiry* 786 *Launch Lab* 787 *Science & Society* 795 **Teacher Edition:** **MODULE J** DIF 789, 791; EX 742, 759; IM 774H; RS 789; SCB 738E, 738F, 774E, 774F	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
L.EC.M.2 Relationships of Organisms- Two types of organisms may interact with one another in several ways: they may be in a producer/consumer, predator/prey, or parasite/host relationship. Some organisms may scavenge or decompose another. Relationships may be competitive or mutually beneficial. Some species have become so adapted to each other that neither could survive without the other.			
L.EC.06.21 Describe common patterns of relationships between and among populations (competition, parasitism, symbiosis, predator/prey).	See the Life Science Modules.	**Student Edition:** **MODULE J** 742, 762-764 *Inquiry Lab* 766-767 **Teacher Edition:** **MODULE J** DIF 763; EX 743, 762-763; FT 762, 764; SCB 738F	See the Life Science Modules.
L.EC.06.22 Explain how two populations of organisms can be mutually beneficial and how that can lead to interdependency.	See the Life Science Modules.	**Student Edition:** **MODULE G** 284 *Inquiry Lab* 286-287 **MODULE J** 763 *Inquiry Lab* 766-767 **Teacher Edition:** **MODULE G** FT 284 **MODULE J** EX 763	See the Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
L.EC.06.23 Predict how changes in one population might affect other populations based upon their relationships in the food web.	See the Life Science Modules.	**Student Edition:** **MODULE J** 726-727, 761 *MiniLab* 760 **Teacher Edition:** **MODULE J** FT 760	See the Life Science Modules.
L.EC.M.3 Biotic and Abiotic Factors- The number of organisms and populations an ecosystem can support depends on the biotic (living) resources available and abiotic (nonliving) factors, such as quality of light and water, range of temperatures, and soil composition.			
L.EC.06.31 Identify the living (biotic) and nonliving (abiotic) components of an ecosystem.	**Student Edition:** **MODULE A** 159-161 **MODULE D** 628 *Careers in Science* 571 **Teacher Edition:** **MODULE A** GQ 161; RS 159; SCB 146F, VL 161 **MODULE B** FF 237 **MODULE D** VL 628	**Student Edition:** **MODULE J** 707-709 *Inquiry* 704 *Launch Lab* 707 **Teacher Edition:** **MODULE J** EX 708-709; IN 704; SCB 704E; TBI 704	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
L.EC.06.32 Identify the factors in an ecosystem that influence changes in population size.	See the Life Science Modules.	**Student Edition:** **MODULE J** 743-745, 749-755 *MiniLab* 743, 752 *Skill Practice* 757 **Teacher Edition:** **MODULE J** DIF 743, 745, 751; EX 743, 749, 752, 754, 757	See the Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
L.EC.M.4 Environmental Impact of Organisms- All organisms (including humans) cause change in the environment where they live. Some of the changes are harmful to the organism or other organisms, whereas others are helpful.			
L.EC.06.41 Describe how human beings are part of the ecosystem of the Earth and that human activity can purposefully, or accidentally, alter the balance in ecosystems.	**Student Edition:** **MODULE A** 198 **MODULE C** 433-439, 445 #15, 504-511 *Careers in Science* 416 *MiniLab* 437 **MODULE D** 546-551, 588-595 *MiniLab* 548, 594 *Science and Society* 615 **Teacher Edition:** **MODULE A** GQ 198 **MODULE C** CD 437; DI 435; GQ 434, 435, 506, 507; SCB 406F **MODULE D** DI 591; GQ 548, 549, 590; SCB 560F; TD 549; VL 592	**Student Edition:** **MODULE G** *Green Science* 339 **MODULE J** 751, 753, 778, 779, 780, 781, 782, 783, 788, 789, 790, 791, 792, 800, 823-827 *Careers in Science* 746 *Launch Lab* 749 *Science and Society* 794 *Skill Practice* 829 **Teacher Edition:** **MODULE G** EX 339 **MODULE J** DIF 779; EX 747, 779; SCB 738E; TD 779	**Student Edition:** **MODULE L** 179-182 *Green Science* 167 *Nature of Science* 156-157 *Table 2* 184 **MODULE N** *Inquiry* 470 **Teacher Edition:** **MODULE L** DI 179; E 179-182, 184; Ext 167; SCB 158F; T 156; TT 179 **MODULE N** FT 470

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
L.EC.06.42 Predict possible consequences of overpopulation of organisms, including humans, (for example: species extinction, resource depletion, climate change, pollution).	**Student Edition:** **MODULE C** 433-439, 504-511 **MODULE D** 546-551, 588-595 *MiniLab* 548 *Science and Society* 615 **Teacher Edition:** **MODULE C** ACT 509; GQ 506, 508 **MODULE D** DI 591; GQ 548, 549, 591, 592; SCB 560F; TD 549	**Student Edition:** **MODULE G** *Green Science* 339 **MODULE J** 718, 745, 822-827, 831 *Inquiry* 738 **Teacher Edition:** **MODULE G** EX 339 **MODULE J** DIF 743; EX 745; IN 738; SCB 738E; TD 745	See the Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
EARTH SCIENCE—Solid Earth			
K-7 Standard E.SE: *Develop an understanding of the properties of Earth materials and how those properties make materials useful. Understand gradual and rapid changes in Earth materials and features of the surface of Earth. Understand magnetic properties of Earth.*			
E.SE.M.1 Soil- Soils consist of weathered rocks and decomposed organic materials from dead plants, animals, and bacteria. Soils are often found in layers with each having a different chemical composition and texture.			
E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils and sediments.	**Student Edition:** **MODULE A** 115, 126, 148-155, 156-161, 171 #17, 178-181 *Launch Lab* 149 *MiniLab* 153 *Inquiry Skill Practice* 156 *Writing in Science* 171 *How Nature Works* 185 **MODULE D** 546-551, 588-595 *MiniLab* 548 *Science and Society* 615 **Teacher Edition:** **MODULE A** DI 153, 159; GQ 149, 152, 154; IM 146H, 174H; SCB 146E-F, 174E; VL 151	**Student Edition:** **MODULE J** 826 *MiniLab* 826 **Teacher Edition:** **MODULE J** EX 826	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.SE.06.12 Explain how waves, wind, water, and glacier movement, shape and reshape the land surface of the Earth by eroding rock in some areas and depositing sediments in other areas.	**Student Edition:** **MODULE A** 176-184, 186-193, 195-201 *How Nature Works* 185 *Launch Lab* 187, 196 *Inquiry Skill Practice* 194 **Teacher Edition:** **MODULE A** ACT 187; DI 199; GQ 181, 189; IM 174H; SCB 174E-F; VL 181, 183, 189, 199	**Student Edition:** **MODULE J** 826 *MiniLab* 826 **Teacher Edition:** **MODULE J** EX 826	See the Earth and Space and Life Science Modules.
E.SE.06.13 Describe how soil is a mixture made up of weather eroded rock and decomposed organic material.	**Student Edition:** **MODULE A** 158-165 *Launch Lab* 158 *MiniLab* 159 *Inquiry Lab* 166-167 **Teacher Edition:** **MODULE A** DI 159; GQ 159, 161; SCB 146F	**Student Edition:** **MODULE J** 709, 718	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.SE.06.14 Compare different soil samples based on particle size and texture.	**Student Edition:** **MODULE A** 163-164 *Launch Lab* 158 *MiniLab* 159 *Table 2* 163 **Teacher Edition:** **MODULE A** IM 146H	**Student Edition:** **MODULE J** 718 *Inquiry Lab* 730-731	See the Earth and Space and Life Science Modules.
E.SE.M.4 Rock Formation- Rocks and rock formations bear evidence of the minerals, materials, temperature/pressure conditions, and forces that created them.			
E.SE.06.41 Compare and contrast the formation of rock types (igneous, metamorphic, and sedimentary) and demonstrate the similarities and differences using the rock cycle model.	**Student Edition:** **MODULE A** 110-116, 118-123, 125-130, 132-137 *MiniLab* 115, 120, 128, 134 *Launch Lab* 119, 133 *Inquiry Skill Practice* 124 *Inquiry Extension* 139 **MODULE B** 257 **Teacher Edition:** **MODULE A** ACT 115; DI 114, 121, 127; GQ 113, 114, 120, 126, 128; IM 108H; RS 113; SCB 108E-F; TD 113 **MODULE B** DI 257; GQ 257; VL 257	**Student Edition:** **MODULE F** 190, 192 **Teacher Edition:** **MODULE F** EX 190	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.SE.M.5 Plate Tectonics- The lithospheric plates of the Earth constantly move, resulting in major geological events, such as earthquakes, volcanic eruptions, and mountain building.			
E.SE.06.51 Explain plate tectonic movement and how the lithospheric plates move centimeters each year.	**Student Edition:** **MODULE B** 216-222, 224-230, 233-241 *Math Skills* 240, 247 *Inquiry Lab* 242-243 **Teacher Edition:** **MODULE B** ACT 253, 261, 265; DI 235; GQ 235, 237, 238; IM 214H; SCB 214E-F; TD 233; VL 235, 236, 239	See the Earth and Space Science Modules.	See the Earth and Space Science Modules.
E.SE.06.52 Demonstrate how major geological events (earthquakes, volcanic eruptions, mountain building) result from these plate motions.	**Student Edition:** **MODULE B** 233-241, 251-258, 260-266, 268-274, 292-296, 306-309 *Launch Lab* 261 *MiniLab* 264, 272 *How Nature Works* 267 *Inquiry Skill Practice* 275 **Teacher Edition:** **MODULE B** ACT 269; DI 295; GQ 214, 232, 268, 271, 294; IM 250H; SCB 250E-F; TD 235; VL 237, 262, 263, 309	See the Earth and Space Science Modules.	See the Earth and Space Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.SE.06.53 Describe layers of the Earth as a lithosphere (crust and upper mantle), convecting mantle, and dense metallic core.	**Student Edition:** **MODULE A** 48-56 *Launch Lab* 49 *Inquiry Lab* 66-67 **MODULE B** 234-241, 298 *Table 1* 236 **Teacher Edition:** **MODULE A** DI 53; GQ 52, 54; IM 38H; SCB 38E-F; VL 45, 51, 53, 54 **MODULE B** GQ 234, 238, 298; SCB 214F; VL 239	See the Earth and Space Science Modules.	See the Earth and Space Science Modules.
E.SE.M.6 Magnetic Field of Earth- Earth as a whole has a magnetic field that is detectable at the surface with a compass.			
E.SE.06.61 Describe the Earth as a magnet and compare the magnetic properties of the Earth to that of a natural or manufactured magnet. *	**Student Edition:** **MODULE A** 54-55, 56 #8 **MODULE B** 228 **Teacher Edition:** **MODULE A** GQ 38, 55; SCB 38F; TD 55; VL 55 **MODULE B** GQ 228; IM 214H; TD 229	See the Earth and Space and Physical Science Modules.	**Student Edition:** **MODULE O** 720 *Figure 7* 720 *Inquiry* 716 **Teacher Edition:** **MODULE O** DI 719; E 720; ET 717; FT 716; IM 714H; SCB 714E

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.SE.06.62 Explain how a compass works using the magnetic field of the Earth, and how a compass is used for navigation on land and sea.	**Student Edition:** **MODULE A** 55 **Teacher Edition:** **MODULE A** DI 55; GQ 55	See the Earth and Space and Physical Science Modules.	**Student Edition:** **MODULE O** 720 *Figure 6 & 7* 720 *MiniLab* 721 **Teacher Edition:** **MODULE O** DI 721; E 720; ET 717; IM 714H; TT 721

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
Earth in Space and Time			
K-7 Standard E.ST: *Develop an understanding that the sun is the central and largest body in the solar system and that Earth and other objects in the sky move in a regular and predictable motion around the sun. Understand that those motions explain the day, year, moon phases, eclipses and the appearance of motion of objects across the sky. Understand that gravity is the force that keeps the planets in orbit around the sun and governs motion in the solar system. Develop an understanding that fossils and layers of Earth provide evidence of the history of Earth's life forms, changes over long periods of time, and theories regarding Earth's history and continental drift.*			
E.ST.M.3 Fossils- Fossils provide important evidence of how life and environmental conditions have changed in a given location.			
E.ST.06.31 Explain how rocks and fossils are used to understand the age and geological history of the Earth (timelines and relative dating, rock layers).	**Student Edition:** **MODULE B** 219-220, 326-334, 336-342, 364 *Launch Lab* 337 *MiniLab* 339 *Careers in Science* 335 *Inquiry Skill Practice* 343 *Inquiry Lab* 352-353, 394-395 **Teacher Edition:** **MODULE B** DI 339, 341; GQ 220, 338, 339, 340; SCB 324E-F; TD 339; VL 338, 341	**Student Edition:** **MODULE F** 192-193 **Teacher Edition:** **MODULE F** DIF 193; EX 192-193; SCB 186E	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.ST.M.4 Geologic Time- Earth processes seen today (erosion, mountain building, and glacier movement) make possible the measurement of geologic time through methods such as observing rock sequences and using fossils to correlate the sequences at various locations.			
E.ST.06.41 Explain how Earth processes (erosion, mountain building, and glacier movement) are used for the measurement of geologic time through observing rock layers.	**Student Edition:** **MODULE B** 218-220, 336-342, 373, 388-389 *Launch Lab* 337 *MiniLab* 339 *Inquiry Skill Practice* 343 *Inquiry Lab* 352-353 **Teacher Edition:** **MODULE B** DI 219, 339, 340, 341; GQ 218, 336, 373, 388; TD 339; VL 341	**Student Edition:** **MODULE F** 192-193 **Teacher Edition:** **MODULE F** DIF 193; EX 192-193; SCB 186E	See the Earth and Space and Life Science Modules.

STANDARDS	PAGE REFERENCES		
	Earth and Space Science Modules	Life Science Modules	Physical Science Modules
E.ST.06.42 Describe how fossils provide important evidence of how life and environmental conditions have changed.	**Student Edition:** **NATURE OF SCIENCE** NOS 20-NOS 27 **MODULE B** 218-220, 326-334, 365-368 *Careers in Science* 223, 335, 385 *Launch Lab* 327 *MiniLab* 328 *Inquiry Lab* 394-395 **Teacher Edition:** **NATURE OF SCIENCE** CIS NOS 25; FF NOS 23 **MODULE B** FF 219, 331; GQ 329, 332, 333, 365; SCB 324E-F	**Student Edition:** **MODULE F** 189, 195, 209 **Teacher Edition:** **MODULE F** DIF 195; EX 194-195; FT 188; SCB 186E	See the Earth and Space and Life Science Modules.