



Macmillan/McGraw-Hill

Science Education Standards
Grades 3-4

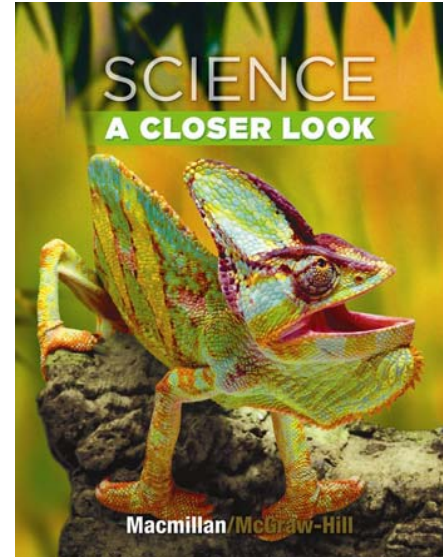
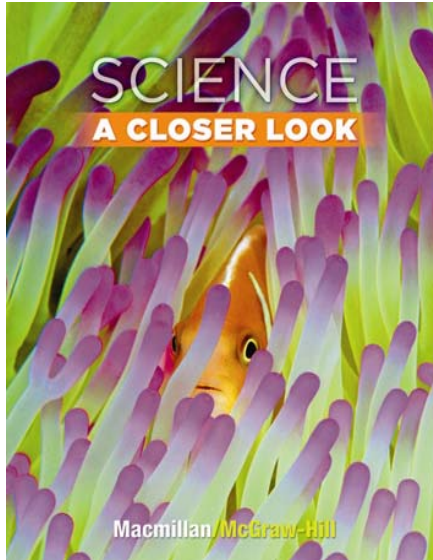
Kansas

SCIENCE

A CLOSER LOOK

Grades 3 and 4

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Codes used for the Teacher Wraparound Edition pages are the initial caps of headings on that page.

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 1: SCIENCE AS INQUIRY		
SCIENCE AS INQUIRY – The student will experience science as <i>full inquiry</i>. In the elementary grades, students begin to develop the physical and intellectual abilities of scientific inquiry.		
Benchmark 1: The student will develop the skills necessary to do full inquiry. <i>Full inquiry</i> involves asking a simple question, completing an <i>investigation</i>, answering the question, and sharing the results with others.		
The student...	Student Edition: <i>Be a Scientist</i> 40-41, 144-145, 268-269, 334-335, 422-423, 450-451, 496-497 <i>Explore</i> 119, 133, 151, 203, 213, 227, 239, 289, 383, 397 Teacher Wraparound Edition: AE 161, 213, 239, 407, 443, 463; HA 448	Student Edition: <i>Be a Scientist</i> 56-57, 106-107, 244-245, 270-271, 282-283, 352-353, 400-401, 472-473, 522-523, 560-561 <i>Explore</i> 59, 99, 165, 175, 237, 285, 393, 467 Teacher Wraparound Edition: AE 59, 99, 137, 225, 263, 285, 295, 323, 335, 369, 493, 513
1. ▲ asks questions that he/she can answer by investigating.	Student Edition: 4-11 <i>Be a Scientist</i> 40-41, 144-145, 268-269, 334-335, 422-423, 450-451, 496-497 <i>Explore</i> 119, 133, 151, 203, 213, 227, 239, 347, 383 <i>Focus on Skills</i> 78-79, 246-247, 486-487 Teacher Wraparound Edition: AE 161, 443, 463; DI 375; EMI 503; HA 10, 402, 448; IW 246; SB 4	Student Edition: 4-11 <i>Be a Scientist</i> 56-57, 106-107, 244-245, 270-271, 282-283, 352-353, 400-401, 472-473, 522-523, 560-561 <i>Focus on Skills</i> 134-135, 172-173, 210-211, 464-465 Teacher Wraparound Edition: AE 59, 99, 137, 225, 263, 285, 295, 323, 369, 483, 493, 513; HA 10; IM 210; SB 5
2. ▲ plans and conducts a simple investigation.		

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
3. ▲ employs appropriate equipment, <i>tools</i> , and safety procedures to gather data.	<p>Student Edition: 14 <i>Be a Scientist</i> 40-41, 268-269, 450-451, 496-497 <i>Explore</i> 107, 227, 239, 317, 373, 397, 417 <i>Focus on Skills</i> 158-159, 246-247, 380-381 <i>Music Link</i> 495 <i>Quick Lab</i> 283, 438, 469, 481</p> <p>Teacher Wraparound Edition: AE 31, 227, 347; DI 187, 375; EMI 435; HA 244, 402; IM 380; IW 14</p>	<p>Student Edition: 14 <i>Be a Scientist</i> 56-57, 270-271, 522-523, 560-561 <i>Explore</i> 21, 237, 285, 393, 513 <i>Focus on Skills</i> 134-135, 332-333, 428-429, 490-491 <i>Quick Lab</i> 289, 470, 498</p> <p>Teacher Wraparound Edition: AE 137, 263, 285, 369, 483, 513, 529; DI 256, R7; IM 428, 560; IW 14; WU 410</p>
4. ▲ begins developing the abilities to communicate, critique, analyze his/her own <i>investigations</i> , and interprets the work of other students.	<p>Student Edition: 9-11 <i>Be a Scientist</i> 40-41, 144-145, 268-269, 450-451, 496-497 <i>Chapter Review</i> 99 <i>Explore</i> 21, 53, 91, 303 <i>Focus on Skills</i> 12-13, 116-117, 158-159, 286-287, 460-461 <i>Science Handbook</i> R10-R13 <i>Writing in Science</i> 62</p> <p>Teacher Wraparound Edition: DI 59, 229; HA 10; IM 40, 78, 450; IR 50, 286; IW 62, 236, 246</p>	<p>Student Edition: <i>Be a Scientist</i> 106-107, 244-245, 270-271, 282-283, 352-353, 400-401, 472-473, 522-523, 560-561 <i>Explore</i> 33, 345, 483 <i>Focus on Skills</i> 260-261, 376-377, 490-491 <i>Math in Science</i> 321 <i>Quick Lab</i> 64, 131 <i>Science Handbook</i> R10-R13</p> <p>Teacher Wraparound Edition: AE 59, 225, 285; DI 25, 265; EMI 387; HA 104; IM 352, 428, 490; IW 96</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 2: PHYSICAL AS INQUIRY		
PHYSICAL SCIENCE - The students increase their understanding of the <i>properties</i> of objects and materials that they encounter on a daily basis. The student will compare, describe, and sort and <i>classify</i> these materials by observable properties.		
Benchmark 1: All students will develop skills to describe objects.		
<p>The student...</p> <p>1. ▲ observes <i>properties</i> of objects and measures those <i>properties</i> using appropriate <i>tools</i>.</p>	<p>Student Edition: 228-233, 364-368, 374-378 <i>Explore</i> 227, 363, 373 <i>Focus on Skills</i> 380-381 <i>Math Link</i> 379 <i>Quick Lab</i> 231, 243, 367, 377, 387 <i>Science Handbook</i> R2-R6 Teacher Wraparound Edition: AE 363; DI R5; FA 369; HA 368; IM 380</p>	<p>Student Edition: 252-253, 412-415, 422-426 <i>Explore</i> 251, 411, 421, 431, 445 <i>Focus on Skills</i> 260-261, 428-429 <i>Lesson Review</i> 417, 427 <i>Math in Science</i> 419 <i>Quick Lab</i> 255, 415, 425, 435, 470 Teacher Wraparound Edition: DI 253, 413, 423, R5; ELLS 425; EMI 8; FA 417, 427; HA 416; IM 260; WU 444</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
2. ▲ describes and <i>classifies</i> objects by more than one property.	<p>Student Edition: 38, 54-60, 228-233, 242-243 <i>Explore</i> 53, 227, 383 <i>Focus on Skills</i> 50-51 <i>Math Link</i> 39 <i>Quick Lab</i> 231, 243, 367 <i>Reading in Science</i> 28-29</p> <p>Teacher Wraparound Edition: AE 53, 227; DI 55, 229; DMI 38; IR 50; IW 390; UV 38</p>	<p>Student Edition: 34-39, 46-47, 60-61, 78-84, 90-94, 412-415, 432-435 <i>Art Link</i> 471 <i>Explore</i> 33, 411, 431 <i>Focus on Skills</i> 86-87 <i>Lesson Review</i> 437 <i>Reading in Science</i> 438-439 <i>Writing in Science</i> 418 <i>Writing Link</i> 427</p> <p>Teacher Wraparound Edition: AE 33, 411, 431; DI 35, 47, 83, 253; FA 85, 95, 437; HA 54, 268; WU 76, 430</p>
3. ▲ observes and records how one object <i>interacts</i> with another object.	<p>Student Edition: <i>Be a Scientist</i> 450-451 <i>Explore</i> 213, 227 <i>Focus on Skills</i> 246-247 <i>Math Link</i> 369 <i>Quick Lab</i> 217, 419 <i>Writing in Science</i> 220 <i>Writing Link</i> 219</p> <p>Teacher Wraparound Edition: AE 213, 239; EMI 215, 217, 367, 446; FA 219; HA 218, 448; WU 212</p>	<p>Student Edition: <i>Be a Scientist</i> 270-271, 472-473 <i>Explore</i> 225, 263, 285, 295, 369, 457, 467 <i>Literature</i> 199 <i>Quick Lab</i> 207, 255, 470 <i>Writing in Science</i> 234</p> <p>Teacher Wraparound Edition: AE 225, 263, 285, 369, 467</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
4. ▲ recognizes and describes the differences between solids, liquids, and gases.	Student Edition: 384-388, 398-401 <i>Explore</i> 383, 397 <i>Focus on Skills</i> 404-405 <i>Lesson Review</i> 389, 403 <i>Quick Lab</i> 387 Teacher Wraparound Edition: AE 383; DI 385; ELLS 401; FA 389; HA 388; IW 390; WU 382	Student Edition: 414-415 <i>Explore</i> 411 <i>Lesson Review</i> 417 <i>Quick Lab</i> 415 Teacher Wraparound Edition: AE 411; ELLS 415; EMI 414; FA 417; IW 418; WU 410
Benchmark 2: The student will describe the motion of objects.		
The student... 1. ▲ moves objects by pushing, pulling, throwing, spinning, dropping, and rolling; and describes the motion.	Student Edition: 436-438, 444-445 <i>Explore</i> 443 <i>Quick Lab</i> 438 <i>Writing Link</i> 439 Teacher Wraparound Edition: AE 443; ELLS 436, 445; EMI 437; FA 439; HA 448	Student Edition: 484-488 <i>Chapter Review</i> 525 <i>Explore</i> 483 <i>Focus on Skills</i> 490-491 <i>Quick Lab</i> 487 Teacher Wraparound Edition: AE 483; DI 485; FA 489
2. describes the change in position of objects when moved.	Student Edition: 434-437 <i>Explore</i> 433 Teacher Wraparound Edition: AE 433; DI 435; DMI 434; FA 439	Student Edition: 484-485 <i>Lesson Review</i> 489 Teacher Wraparound Edition: DMI 484

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
Benchmark 3: The student will recognize and demonstrate what makes sounds.		
The student... 1. ▲ identifies that the source of sound is vibrations.	Student Edition: 490-491 <i>Be a Scientist</i> 496-497 <i>Explore</i> 489 Teacher Wraparound Edition: DI 491; DMI 490; WU 488	Student Edition: 540-541 <i>Explore</i> 539 <i>Lesson Review</i> 547 Teacher Wraparound Edition: DMI 540; HA 546; WU 538
2. discriminates between sounds made by different objects.	Student Edition: 490-493 <i>Be a Scientist</i> 496-497 <i>Explore</i> 489 <i>Music Link</i> 495 <i>Quick Lab</i> 493 Teacher Wraparound Edition: WU 488	Student Edition: 544-545 <i>Explore</i> 539 <i>Quick Lab</i> 544 Teacher Wraparound Edition: AE 539; WU 538
3. discriminates between various pitches.	Student Edition: 493 <i>Music Link</i> 495 <i>Quick Lab</i> 493 Teacher Wraparound Edition: DI 493; DMI 492	Student Edition: 545 <i>Explore</i> 539 <i>Quick Lab</i> 544 Teacher Wraparound Edition: AE 539; DI 544; HA 546

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
Benchmark 4: The student will experiment with electricity and magnetism.		
The student...	Student Edition: 367, 446	Student Edition: 576-577
1. ▲ demonstrates that magnets attract and repel.	Teacher Wraparound Edition: DI 447; EMI 446; WU 442	<i>Explore</i> 575 Teacher Wraparound Edition: AE 493; DI 577; WU 574
2. designs a simple experiment to determine whether various objects will be attracted to magnets.	Student Edition: <i>Be a Scientist</i> 450-451 Teacher Wraparound Edition: AM 366; EMI 367	Student Edition: 461, 576 <i>Quick Lab</i> 461, 580 Teacher Wraparound Edition: EMI 461
3. ▲ constructs a <i>simple circuit</i> .	Student Edition: 515 <i>Explore</i> 511 Teacher Wraparound Edition: DI 515; ELLS 514; FA 517	Student Edition: 566-569 <i>Lesson Review</i> 571 <i>Quick Lab</i> 569, 580 Teacher Wraparound Edition: DI 567, 569; DMI 566, 568; ELLS 566, 568; FA 571

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 3: LIFE SCIENCE		
LIFE SCIENCE – The student will develop an understanding of biological concepts through direct experience with living things, their life cycles, and their habitats.		
Benchmark 1: The student will develop knowledge of organisms in their environment.		
The student...	Student Edition: 32-37, 44-47 <i>Explore</i> 31, 43, 53 <i>Lesson Review</i> 49 <i>Quick Lab</i> 35, 47 <i>Writing in Science</i> 62 Teacher Wraparound Edition: AE 31; DI 33, 35, 47, 59; FA 39, 49; SB 32; UV 36; WU 30	Student Edition: 24-25, 46-53, 78-84, 90-94, 166-169 <i>Be a Scientist</i> 56-57, 106-107 <i>Chapter Review</i> 195 <i>Explore</i> 45, 89, 165 <i>Focus on Skills</i> 30-31, 172-173 <i>Quick Lab</i> 177 Teacher Wraparound Edition: AE 45, 165, 175; DI 25, 81, 83, 93, 167; HA 84, 94, 170; IW 106, 180; WU 20
1. ▲ observes different organisms and compares and contrasts how similar functions are served by different structural characteristics.	Student Edition: 24-25, 46-48, 110-111, 122-128 <i>Be a Scientist</i> 40-41 <i>Explore</i> 107 <i>Focus on Skills</i> 116-117 <i>Lesson Review</i> 27 <i>Writing Link</i> 39, 115 Teacher Wraparound Edition: AE 119; CE 36; DI 47; DMI 24; FA 27; HA 26, 114; WU 42, 106	Student Edition: 22-23, 48-51, 130-131, 140-144, 152-156 <i>Art Link</i> 157 <i>Explore</i> 59, 137, 149, 175 <i>Focus on Skills</i> 134-135 <i>Literature</i> 125 <i>Quick Lab</i> 131 <i>Writing in Science</i> 158 Teacher Wraparound Edition: AE 59, 149; DI 142, 154; DMI 22, 48; EMI 153; FA 145; HA 156; IW 158; WU 58, 128
2. ▲ compares basic needs of different organisms in their environment.		

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
3. discusses ways organisms use their senses to survive in their environments.	Student Edition: 44, 494, 506 <i>Explore</i> 43 <i>Literature</i> 275 Teacher Wraparound Edition: AE 43; HA 494, 506; SB 7	Student Edition: 100-101, 542-543, 555 <i>Chapter Review</i> 589 <i>Explore</i> 77, 99 <i>Literature</i> 479 <i>Writing Link</i> 105 Teacher Wraparound Edition: AE 77, 99; ELLS 543
Benchmark 2: The student will observe and illustrate the life cycles of various organisms.		
The student... 1. ▲ compares, contrasts, and asks questions about life cycles of various organisms.	Student Edition: 74-76, 82-86 <i>Chapter Review</i> 99 <i>Explore</i> 81 <i>Lesson Review</i> 77 <i>Quick Lab</i> 85 Teacher Wraparound Edition: DI 17, 84; DMI 74; ELLS 85; FA 77, 87; HA 76, 86	Student Edition: 64-65, 110-115 <i>Explore</i> 109 <i>Lesson Review</i> 117 <i>Reading in Science</i> 118-119 Teacher Wraparound Edition: AE 109; DI 65, 111, 113; DMI 112; ELLS 112; FA 69, 117; HA 116; UV 113; WU 108

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 4: EARTH AND SPACE SCIENCE		
EARTH AND SPACE SCIENCE – The student will observe objects, materials, and changes in their environment, note their properties, distinguish one from another, and develop their own explanations making sense of their observations.		
Benchmark 1: The student will develop an understanding of the properties of <i>earth materials</i>.		
The student...	Student Edition: 228-233, 240-243 <i>Explore</i> 227, 239 <i>Focus on Skills</i> 246-247 <i>Quick Lab</i> 231, 243 Teacher Wraparound Edition: AE 213, 227, 239; DI 229, 241; ELLS 232, 242; HA 244; SB 228	Student Edition: 250-257, 264-267 <i>Be a Scientist</i> 270-271 <i>Explore</i> 251, 263, 285 <i>Focus on Skills</i> 260-261 <i>Lesson Review</i> 259 <i>Quick Lab</i> 255, 267 Teacher Wraparound Edition: AE 251, 263, 285; DI 253, 256; FA 259; HA 268; SB 257; WU 250
1. ▲ collects, observes <i>properties</i> , and <i>classifies</i> a variety of <i>earth materials</i> in his/her <i>environment</i> .		
2. experiments with a variety of soil types (clay, silt, sand, and loam).	Student Edition: 240-243 <i>Explore</i> 239 <i>Focus on Skills</i> 246-247 <i>Quick Lab</i> 243 Teacher Wraparound Edition: HA 244	Student Edition: 264-268 <i>Be a Scientist</i> 245, 270-271 <i>Explore</i> 263 <i>Quick Lab</i> 143, 267 <i>Writing Link</i> 269 Teacher Wraparound Edition: AE 137, 263; DI 265; DMI 266; HA 268; SB 264

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
3. ▲ describes <i>properties</i> of water and process of the water cycle.	<p>Student Edition: 294-295, 398-402 <i>Explore</i> 289, 397 <i>Focus on Skills</i> 404-405 <i>Quick Lab</i> 401</p> <p>Teacher Wraparound Edition: AE 289; CE 294; DI 295, 399, 400; FA 299, 403; HA 402; WU 396</p>	<p>Student Edition: 286-287, 324-330, 398, 446-449 <i>Explore</i> 285, 323, 335 <i>Focus on Skills</i> 332-333, 464-465 <i>Lesson Review</i> 331 <i>Quick Lab</i> 317, 328, 415, 449</p> <p>Teacher Wraparound Edition: AE 285, 323; AM 327; DI 287, 288, 325, 326, 449; IW 332; SB 324; WU 284, 410</p>
4. observes and records the properties of <i>fossils</i> and discusses what <i>fossils</i> are.	<p>Student Edition: 174-177, 250-251 <i>Explore</i> 173, 249 <i>Lesson Review</i> 255 <i>Quick Lab</i> 177, 251</p> <p>Teacher Wraparound Edition: AE 173, 249; DI 177, 251; FA 179; SB 174; WU 172, 248</p>	<p>Student Edition: 255, 274-277 <i>Be a Scientist</i> 282-283 <i>Lesson Review</i> 281 <i>Quick Lab</i> 277</p> <p>Teacher Wraparound Edition: AE 273; DI 255, 275; DMI 274; FA 281; SB 274; WU 272</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
Benchmark 2: The student will observe and compare objects in the sky.		
The student... 1. observes the moon and stars.	Student Edition: 328-331, 348-350 <i>Be a Scientist</i> 334-335 <i>Chapter Review</i> 355 <i>Explore</i> 327 <i>Lesson Review</i> 351 <i>Quick Lab</i> 349 Teacher Wraparound Edition: AE 327, 347; DI 329; FA 351; IW 334	Student Edition: 370-374, 394-398 <i>Be a Scientist</i> 400-401 <i>Chapter Review</i> 403 <i>Explore</i> 369, 393 <i>Focus on Skills</i> 376-377 <i>Lesson Review</i> 375, 399 <i>Quick Lab</i> 373, 397 Teacher Wraparound Edition: AE 393; DI 372, 395; DMI 372, 396; EMI 373; FA 399; HA 398; IW 376, 400; SB 370, 394; WU 368, 392
2. observes and compares the length of shadows.	Student Edition: 318, 502 <i>Art Link</i> 507 <i>Explore</i> 317 <i>Look and Wonder</i> 316 Teacher Wraparound Edition: AE 317	Student Edition: 361 <i>Lesson Review</i> 365
3. ▲ discusses that the sun provides light and heat (electro-magnetic radiation) to maintain the temperature of the earth.	Student Edition: 280-281, 322, 480, 500 Teacher Wraparound Edition: DMI 322; WU 316	Student Edition: 398, 506 <i>Lesson Review</i> 399 <i>Writing in Science</i> 366 Teacher Wraparound Edition: DMI 398; IW 366

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
Benchmark 3: The student will develop skills necessary to describe changes in the earth and weather.		
<p>The student...</p> <p>1. ▲ describes changes in the surface of the earth.</p>	<p>Student Edition: 204-208, 214-218 <i>Chapter Review</i> 223 <i>Explore</i> 203, 213 <i>Lesson Review</i> 209, 219 <i>Math in Science</i> 221 <i>Quick Lab</i> 207, 217 <i>Reading in Science</i> 210-211 <i>Social Studies Link</i> 169 <i>Writing in Science</i> 220</p> <p>Teacher Wraparound Edition: AE 213; DI 205, 215; DMI 208, 216; FA 209, 219; HA 208, 218; WU 202, 212</p>	<p>Student Edition: 214-220, 226-232, 238-242 <i>Be a Scientist</i> 244-245 <i>Explore</i> 213, 225, 237 <i>Lesson Review</i> 221, 233, 243 <i>Quick Lab</i> 231, 241 <i>Reading in Science</i> 222-223 <i>Writing in Science</i> 234</p> <p>Teacher Wraparound Edition: AE 213, 225, 237; DI 215, 229, 230, 239; DMI 214; EMI 217; FA 221, 233, 243; HA 242; UV 227; WU 224, 262</p>
<p>2. ▲ observes, describes, and records daily and seasonal weather changes.</p>	<p>Student Edition: 280-284 <i>Art Link</i> 285 <i>Explore</i> 303 <i>Focus on Skills</i> 286-287 <i>Math Link</i> 285 <i>Quick Lab</i> 283 <i>Writing in Science</i> 324</p> <p>Teacher Wraparound Edition: AE 303; DI 283; FA 285; IM 221, 311; IR 286; IW 324</p>	<p>Student Edition: 316-318, 336-340 <i>Be a Scientist</i> 352-353 <i>Chapter Review</i> 355 <i>Explore</i> 345 <i>Lesson Review</i> 319 <i>Math in Science</i> 321 <i>Quick Lab</i> 339 <i>Writing in Science</i> 320</p> <p>Teacher Wraparound Edition: CE 316; DI 337; ELLS 339; HA 330; IM 321; WU 334, 344</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 5: SCIENCE AND TECHNOLOGY		
SCIENCE AND TECHNOLOGY – The student will have a variety of educational experiences that involve science and technology. The student will begin to understand the design process.		
Benchmark 1: The student will work with a technology design.		
The student... 1. ▲ identifies a simple <i>design problem</i> (designs a plan, implements the plan, evaluates the results, makes changes to improve the product, and communicates the results).	Student Edition: <i>Chapter Review</i> 475 Teacher Wraparound Edition: AE 203; IR 211	Student Edition: <i>Focus on Skills</i> 210-211 <i>Quick Lab</i> 64 Teacher Wraparound Edition: IR 303
Benchmark 2: The student will apply their understanding about science and technology.		
The student... 1. will understand that the design process produces knowledge that can be used to solve a problem and improve our world.	Student Edition: <i>Chapter Review</i> 475 <i>Reading in Science</i> 210-211 Teacher Wraparound Edition: AE 203; IR 211	Student Edition: <i>Focus on Skills</i> 210-211 <i>Quick Lab</i> 64 <i>Reading in Science</i> 302-303, 586-587 Teacher Wraparound Edition: ELLS 586; HA 534; IR 244, 303, 587; SB 238
2. invents a product to solve problems.	Student Edition: <i>Chapter Review</i> 475 Teacher Wraparound Edition: AE 203; IR 211	Student Edition: <i>Quick Lab</i> 64 Teacher Wraparound Edition: IR 303

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
3. works with others to solve problems.	<p>Student Edition: <i>Be a Scientist</i> 144-145 <i>Explore</i> 91, 133, 173, 337, 363, 373 <i>Quick Lab</i> 339, 349</p> <p>Teacher Wraparound Edition: AE 191, 363; EMI 5, 263, 448, 503; IM 450; IR 29; IW 246, 518</p>	<p>Student Edition: <i>Explore</i> 165, 273 <i>Focus on Skills</i> 172-173, 490-491 <i>Quick Lab</i> 299, 384, 557</p> <p>Teacher Wraparound Edition: AE 529; CE 316; ELLS 327; EMI 10, 153, 373, 383, 506</p>
4. develops an awareness that women and men of all ages, backgrounds, and ethnic groups engage in a variety of scientific and technological work.	<p>Student Edition: <i>Careers in Science</i> 100, 184, 272, 356, 426, 522 <i>Explore</i> 3 <i>Reading in Science</i> 96-97, 130-131, 180-181, 300-301, 352-353, 370-371, 440-441, 508-509</p> <p>Teacher Wraparound Edition: CE 466; DI 481, 513; HA 378; IR 415; IW 100, 184, 356, 522</p>	<p>Student Edition: 3-11 <i>Careers in Science</i> 122, 196, 306, 404, 476, 590 <i>Literature</i> 407 <i>Reading in Science</i> 118-119, 222-223, 390-391, 438-439, 586-587</p> <p>Teacher Wraparound Edition: CE 231, 516, 556; IW 196, 306, 404, 590</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
5. investigates how scientists use <i>tools</i> to observe.	<p>Student Edition: 374-378 <i>Explore</i> 239, 373, 397 <i>Focus on Skills</i> 344-345, 380-381 <i>Quick Lab</i> 26, 231, 377, 438, 469, 481 <i>Science Handbook</i> R2-R8</p> <p>Teacher Wraparound Edition: AE 31, 227; DI R7; EMI 435; FA 379; IM 380; SB 434</p>	<p>Student Edition: 28, 218-219, 318, 382-383, 422-426 <i>Explore</i> 21, 251, 421 <i>Focus on Skills</i> 428-429 <i>Quick Lab</i> 289, 467, 498 <i>Reading in Science</i> 342-343, 390-391 <i>Science Handbook</i> R2-R8 <i>Social Studies Link</i> 389</p> <p>Teacher Wraparound Edition: AE 529; CE 316; DI 256, 423, R7; ELLS 342, 382; EMI 383; FA 319, 427; HA 318, 426; IM 428; IW 14</p>
STANDARD 6: SCIENCE IN PERSONAL AND ENVIRONMENTAL PERSPECTIVES		
SCIENCE IN PERSONAL AND ENVIRONMENTAL PERSPECTIVES – The student will demonstrate personal health and environmental practices.		
Benchmark 1: The student will develop an understanding of personal health.		
<p>The student...</p> <p>1. ▲ discusses the nutritional value of various foods and their contribution to health.</p>	<p>Student Edition: <i>Health Handbook</i> R24-R26 <i>Health Link</i> 27 <i>Quick Lab</i> 457</p> <p>Teacher Wraparound Edition: APK R26; DI R24, R26; DMI R24, R25; HA 234; UV R24, R25, R26</p>	<p>Student Edition: <i>Health Handbook</i> R24-R26</p> <p>Teacher Wraparound Edition: APK R26; DI R24, R26; DMI R24, R25; UV R24, R25, R26</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
2. discusses that safety involves preventing injury by avoiding inappropriate risks and dangers.	<p>Student Edition: 14, 298, 494 <i>Health Link</i> 299, 323, 485, 517 <i>Reading in Science</i> 210-211, 300-301 <i>Writing Link</i> 495</p> <p>Teacher Wraparound Edition: DMI 494; ELLS 210; FA 299; IR 211, 301; WU 202</p>	<p>Student Edition: 14, 217, 239, 340, 374, 398, 570 <i>Literature</i> 309 <i>Writing Link</i> 571</p> <p>Teacher Wraparound Edition: AM 217; ER 343; FA 341, 547, 571; HA 220, 340, 374; SB 552</p>
3. assumes some responsibility for his/her own health, and the health and well being of others.	<p>Student Edition: 494 <i>Health Handbook</i> R24-R26 <i>Health Link</i> 27, 323, 485 <i>Quick Lab</i> 457 <i>Writing Link</i> 495, 507</p> <p>Teacher Wraparound Edition: APK R26; DI R24, R26; DMI 494, R24, R25; HA 234; UV R24, R25, R26</p>	<p>Student Edition: 239, 570 <i>Health Handbook</i> R24-R26 <i>Health Link</i> 319 <i>Reading in Science</i> 42-43 <i>Writing Link</i> 571</p> <p>Teacher Wraparound Edition: APK R26; DI R24, R26; DMI R24, R25; FA 547, 571; HA 374; IR 43; UV R24, R25, R26</p>
Benchmark 2: The student will demonstrate an awareness of changes in the environment.		
The student... 1. defines pollution.	<p>Student Edition: 154, 264 <i>Be a Scientist</i> 268-269 <i>Quick Lab</i> 155</p> <p>Teacher Wraparound Edition: DI 265; DMI 264; ELLS 154, 264; FA 267; SB 260</p>	<p>Student Edition: 187, 296-297 <i>Explore</i> 295 <i>Reading in Science</i> 510-511</p> <p>Teacher Wraparound Edition: AE 295; DI 187, 297; DMI 296; UV 297; WU 294</p>

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
2. develops personal actions to solve pollution problems in and around the neighborhood.	Student Edition: <i>Art Link</i> 157 <i>Chapter Review</i> 183 Teacher Wraparound Edition: DI 263; HA 156	Student Edition: <i>Explore</i> 295 <i>Quick Lab</i> 299 Teacher Wraparound Edition: DI 297; IW 134
3. practices reducing, reusing, and recycling.	Student Edition: 156, 266 <i>Chapter Review</i> 183, 271 <i>Focus on Skills</i> 158-159 <i>Lesson Review</i> 157, 267 <i>Quick Lab</i> 265 Teacher Wraparound Edition: DI 265; HA 156, 266; IW 426	Student Edition: 298-300, 416 <i>Lesson Review</i> 301 <i>Math in Science</i> 293 <i>Quick Lab</i> 299 <i>Reading in Science</i> 302-303, 510-511 <i>Writing in Science</i> 292 Teacher Wraparound Edition: DI 298; DMI 298, 300, 416; FA 301; HA 300

STANDARDS	PAGE REFERENCES	
	<i>Science: A Closer Look</i> Grade 3	<i>Science: A Closer Look</i> Grade 4
STANDARD 7: HISTORY AND NATURE OF SCIENCE		
HISTORY AND NATURE OF SCIENCE – The student will experience some things about scientific inquiry and learn about people from history.		
Benchmark 1: The student will develop awareness that people practice science.		
The student...	Student Edition: <i>Be a Scientist</i> 40-41, 144-145, 268-269, 334-335, 422-423, 450-451, 496-497 <i>Explore</i> 119, 133, 151, 203, 213, 227, 239, 289, 383, 397 Teacher Wraparound Edition: AE 161, 213, 239, 407, 443, 463; HA 448	Student Edition: <i>Be a Scientist</i> 56-57, 106-107, 244-245, 270-271, 282-283, 352-353, 400-401, 472-473, 522-523, 560-561 <i>Explore</i> 59, 99, 165, 175, 237, 285, 393, 467 Teacher Wraparound Edition: AE 59, 99, 137, 225, 263, 285, 295, 323, 335, 369, 493, 513
1. recognizes that students participate in science inquiry by asking questions.	Student Edition: <i>Explore</i> 3 <i>Reading in Science</i> 96-97, 130-131, 352-353, 370-371, 440-441 Teacher Wraparound Edition: DI 481, 513; SB 444, 480	Student Edition: 3-11, 381-382, 552 <i>Literature</i> 407 <i>Reading in Science</i> 118-119, 222-223, 390-391, 438-439, 586-587 Teacher Wraparound Edition: DI 407, 553, 567; IW 572; SB 34, 564
2. studies the lives of people who made scientific contributions.		