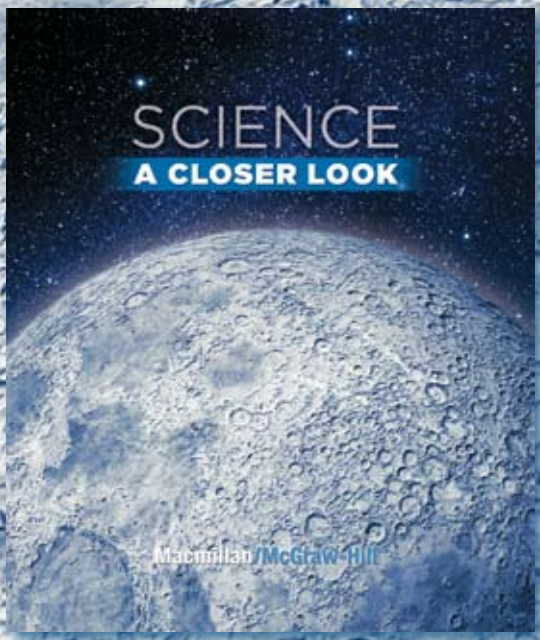
SCIENCE

A CLOSER LOOK

Correlation to Idaho Science Standards

GRADE 6



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Correlated with
Idaho Content Standards Science, Grade 6

`Standard 1: Nature of Science	
Goal 1.1: Understand Systems, Order, and Organization	
Objective 1	
6.S.1.1.1 Analyze different systems. (618.01.a)	pp. 34-43, 56-65, 66-67, 80, 81, 84-91, 92-93, 96-103, 104-105, 108-115, 184-193, 194-195, 196-203, 204-205, 206-217, 218, 220-231, 234, 235, 327, 330, 353, 420, 424-427, 429, 432-441, 442-443, 444-453, 455, 628-637, 638, 698-707, 708-709
Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	
Objective 1	
6.S.1.2.1 Explain how observations and data are used as evidence on which to base scientific explanations and predictions. (618.02.a)	pp. 12, 21, 27, 37, 47, 51, 63, 69, 85, 89, 92-93, 95, 99, 107, 121, 126, 151, 155, 161, 171, 185, 197, 201, 221, 261, 267, 271, 297, 313, 321, 327, 355, 358, 369, 397, 421, 427, 433, 439, 457, 469, 471, 491, 497, 503, 523, 534, 541, 545, 551, 555, 600, 609, 612, 619, 645, 651, 659, 665, 673
Objective 2	
6.S.1.2.2 Use observations to make inferences. (618.02.b)	pp. 13, 51, 57, 63, 67, 69, 89, 99, 105, 126, 139, 151, 155, 161, 169, 171, 175, 197, 201, 204, 221, 249, 255, 271, 283, 297, 301, 307, 313, 327, 339, 351, 359, 369, 373, 381, 391, 395, 407, 421, 439, 445, 459, 471, 491, 497, 515, 523, 529, 535, 541, 545, 555, 575, 600, 615, 627, 635, 665, 671, 683, 693, 705
Objective 3	
6.S.1.2.3 Use models to explain or demonstrate a concept. (618.02.c)	pp. 12, 69, 75, 145, 161, 175, 197, 207, 215, 243, 261, 267, 271, 301, 327, 331, 355, 421, 427, 433, 439, 442-443, 445, 449, 459, 471, 571, 575, 635, 651, 659
Goal 1.3: Understand Constancy, Change, and Measurement	
Objective 1	
6.S.1.3.1 Analyze changes that occur in and among systems. (618.03.b)	pp. 34-43, 56-65, 81, 88-91, 92-93, 96-103, 104-105, 184-193, 196-203, 204-205, 206-217, 218, 220-231, 234, 235, 327, 330, 353, 420, 424-427, 429, 432-441, 442-443, 444-453, 455, 628-637, 638, 698-707, 708-709
Objective 2	
6.S.1.3.2 Measure in both U.S. Customary and International System of Measurement (metric system) units with an emphasis on the metric system. (618.03.c)	pp. 13, 27, 47, 187, 204, 243, 351, 443, 457, 487, 491, 494-495, 497, 511, 515, 523, 529, 541, 558, 589, 605, 615, 619, 627, 635, 681, 683, 708

Goal 1.4: Understand the Theory that Evolution is a Process that Relates to the Gradual Changes in the Universe and of Equilibrium as a Physical State	
Objective 1: No objectives at this grade level.	
Goal 1.5: Understand Concepts of Form and Function	
Objective 1	
6.S.1.5.1 Analyze how the shape or form of an object or system is frequently related to its use and/or function. (618.05.a)	pp. 34-41, 48-49, 54-55, 64, 65, 392, 402, 414, 422-423, 616, 620-621, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 640, 651, 708-709, R11
Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	
Objective 1	
6.S.1.6.1 Write and analyze questions that can be answered by conducting scientific experiments. (619.02.a)	pp. 66-67, 104-105, 168-169, 204-205, 306-307, 358-359, 394-395, 442-443, 534-535, 558-559, 612-613, 708-709
Objective 2	
6.S.1.6.2 Conduct scientific investigations using a control and variables. Repeat same experiment using alternate variables. (619.02.b)	pp. 13, 33, 66, 69, 121, 187, 306, 324-325, 391, 459, 523, 545, 558, 561, 609, 619, 651, 673, 708
Objective 3	
6.S.1.6.3 Select and use appropriate tools and techniques to gather and display data. (619.02.c)	pp. 12-13, 21, 27, 30-31, 37, 47, 51, 57, 63, 66-67, 69, 75, 85, 89, 92-93, 95, 104-105, 107, 121, 139, 151, 161, 168-169, 185, 187, 201, 204-205, 207, 243, 252-253, 255, 267, 297, 313, 321, 327, 331, 351, 355, 358-359, 373, 378-379, 397, 409, 427, 430-431, 439, 442-443, 449, 457, 471, 487, 494-495, 497, 503, 511, 515, 523, 529, 534-535, 541, 545, 548-549, 551, 555, 558-559, 561, 565, 571, 589, 602-603, 605, 615, 619, 627, 635, 645, 659, 665, 671, 673, 681, 683, 705, 708-709, R2-R7
Objective 4	
6.S.1.6.4 Use evidence to analyze data in order to develop descriptions, explanations, predictions, and models. (619.2.d)	pp. 12, 21, 47, 104, 107, 151, 155, 161, 165, 171, 201, 207, 252-253, 301, 313, 321, 343, 351, 391, 401, 430-431, 469, 487, 491, 535, 600, 609, 671
Objective 5	
6.S.1.6.5 Test a hypothesis based on observations. (619.02.e)	pp. 5, 12, 548-549, 613, 683, 709
Objective 6	
6.S.1.6.6 Communicate scientific procedures and explanations. (619.02.g)	pp. 12, 21, 47, 104, 107, 151, 155, 161, 165, 171, 201, 207, 252-253, 301, 313, 321, 343, 351, 391, 401, 430-431, 469, 487, 491, 535, 600, 609, 671

Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors	
Objective 1: No objectives at this grade level.	
Goal 1.8: Understand Technical Communication	
Objective 1	
6.S.1.8.1 Read, give, and execute technical instructions. (628.01a)	pp. 66-67, 104-105, 168-169, 204-205, 306-307, 358-359, 394-395, 442-443, 534-535, 558-559, 612-613, 708-709
Standard 2: Physical Science	
Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions	
Objective 1	
6.S.2.1.1 Compare and contrast the differences among elements, compounds and mixtures. (620.01.a)	pp. 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 522-533, 536, 537, 552, 553, 557, TR56, TR57
Objective 2	
6.S.2.1.2 Define the properties of matter. (620.01.b)	pp. 486, 487, 488, 489, 490, 491, 492, 493, 494, 495
Objective 3	
6.S.2.1.3 Compare densities of equal volumes of a solid, a liquid, or a gas. (619.01.c)	pp. 487, 490, 491,493, 509
Objective 4	
6.S.2.1.4 Describe the effect of temperature on density. (620.01.c)	pp. 487, 493
Objective 5	
6.S.2.1.5 Explain the nature of physical change and how it relates to physical properties (the distance between molecules as water changes from ice to liquid water, and to water vapor). (620.01.d)	pp. 518, 542
Goal 2.2: Understand Concepts of Motion and Forces	
Objective 1	
6.S.2.2.1 Describe the effects of different forces (gravity and friction) on the movement, speed, and direction of an object. (620.03.d)	pp. 587, 588-589, 594-596, 598-599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 611, 612, 613, 614, 615, 616, 617, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641
Goal 2.3: Understand the Total Energy in the Universe is Constant	
Objective 1: No objectives at this grade level.	
Goal 2.4: Understand the Structure of Atoms	
Objective 1: No objectives at this grade level.	

Goal 2.5: Understand Chemical Reactions	
Objective 1: No objectives at this grade level.	
Standard 3: Biology	
Goal 3.1: Understand the Theory of Biological Evolution	
Objective 1: No objectives at this grade level.	
Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems	
Objective 1: No objectives at this grade level.	
Goal 3.3: Understand the Cell is the Basis of Form and Function for All Living Things	
Objective 1	
6.S.3.3.1 Identify the different structural levels of which an organism is comprised (cells, tissues, organs, organ systems, and organisms). (621.01.a)	pp. 20-31, 32-45, 46-55, 56-67, 68-79, 82-83, 84-93, 95, 103, 106-117, 118-119, 120-127, 130
Objective 2	
6.S.3.3.2 Analyze the structural differences between plant and animal cells. (621.01.b)	pp. 87, 95, 96-97, 100, 111
Objective 3	
6.S.3.3.3 Describe how traits are passed from parents to offspring. (621.01.c)	pp. 114-117, 138-139, 140-141, 142-146, 147, 148-149, 151-155, 156, 157, 159, 160-169, 170-179, 228
Standard 4: Earth and Space Systems	
Goal 4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems	
Objective 1	
6.S.4.1.1 Explain the interactions among the solid earth, oceans, atmosphere, and organisms. (624.01.a)	pp. 246-247, 248-249, 250-253, 262, 263, 267, 270, 271, 276-279, 284-289, 293, 304, 306-307, 334
Objective 2	
6.S.4.1.2 Explain the water cycle and its relationship to weather and climate. (624.01.b)	pp. 188, 189, 327, 330, 331, 333, 335, 361, 382-383, 417
Objective 3	
6.S.4.1.3 Identify cumulus, cirrus, and stratus clouds and how they relate to weather changes. (624.01.c)	pp. 188, 367, 384-385, 371, 386-387, 388
Goal 4.2: Understand Geo-chemical Cycles and Energy in the Earth System	
Objective 1: No objectives at this grade level.	

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Standard 5: Personal and Social Perspectives; Technology	
Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced	
Objective 1	
6.S.5.1.1 Identify issues for environmental studies. (626.01.a)	pp. 192, 198-199, 200-201, 202, 226-230, 231, 234
Goal 5.2: Understand the Relationship between Science and Technology	
Objective 1	
6.S.5.2.1 Describe how science and technology are part of our society. (625.01.a)	pp. 44-45, 348-349, 404-405, 568-569, 624-625
Objective 2	
6.S.5.2.2 Describe how science and technology are interrelated. (625.01.b)	pp. 44-45, 348-349, 404-405, 568-569, 624-625
Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them	
Objective 1	
6.S.5.3.1 Explain the difference between renewable and nonrenewable resources. (626.03.a)	pp. 340-343, 354, 508, 658-659