

# SCIENCE

## A CLOSER LOOK

Correlation to Idaho Science Standards

GRADE 3



Macmillan/McGraw-Hill

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Correlated with

Idaho Content Standards Science, Grade 3

**Standard 1: Nature of Science**

**Goal 1.1: Understand Systems, Order, and Organization**

Objective 1

3.S.1.1.1 Label the parts of a system. (573.01.a)	pp. 108-109, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 338-339, 340
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**Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations**

Objective 1

3.S.1.2.1 Make observations, collect data and evaluate it. (573.02.a)	pp. 12, 21, 26, 31, 35, 40, 41, 43, 53, 55, 69, 73, 81, 85, 93, 107, 114, 119, 127, 137, 151, 155, 161, 173, 191, 195, 207, 213, 217, 227, 231, 239, 243, 249, 259, 268-269, 279, 283, 293, 317, 319, 327, 334, 335, 339, 344-345, 347, 349, 363, 383, 387, 401, 407, 412, 417, 419, 422-423, 433, 443, 447, 479, 489, 499, 505, 516
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Objective 2

3.S.1.2.2 Replicate and/or use models. (573.02.b)	pp. 12, 55, 137, 151, 155, 173, 177, 195, 200-201, 203, 207, 217, 249, 251, 259, 289, 293, 307, 319, 334, 337
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**Goal 1.3: Understand Constancy, Change, and Measurement**

Objective 1

3.S.1.3.1 Measure changes that occur. (573.03.b)	pp. 397, 402, 404-405, 422-423
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Objective 2

3.S.1.3.2 Measure in both U.S. Customary and International System of Measurement (metric system) units. (573.03.c)	pp. 13, 81, 161, 213, 317, 339, 347, 373, 377, 380-381, 397, 417, 438, 443, 450-451, 469, 481
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**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

3.S.1.5.1 Describe the relationship between shape and use. (573.05.a)	pp. 28-29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 46, 47, 48, 49, 50-51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 70, 72, 73, 75, 76, 77, 102-103, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144-145, 146, 147, 449, 494, 506, R14, R15, R16, R17, R18, R19, R20, R21, R22, TR40, TR41
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<b>Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills</b>	
<b>Objective 1</b>	
3.S.1.6.1 Identify questions that can be answered by conducting scientific tests. (574.01.a)	pp. 3, 21, 26, 31, 35, 40-41, 43, 47, 53, 55, 69, 73, 81, 85, 91, 93, 107, 114, 119, 127, 133, 137, 144-145, 151, 155, 161, 167, 173, 177, 191, 195, 203, 207, 213, 217, 227, 231, 239, 243, 249, 251, 259, 265, 268-269, 279, 283, 289, 293, 303, 307, 317, 319, 327, 331, 334-335, 337, 339, 347, 349, 363, 367, 373, 377, 383, 387, 397, 401, 407, 412, 417, 419, 422-423, 433, 438, 443, 447, 450-451, 453, 457, 463, 469, 479, 481, 489, 493, 496-497, 499, 505, 511, 516
<b>Objective 2</b>	
3.S.1.6.2 Conduct scientific tests (574.01.b)	pp. 3, 21, 31, 40-41, 43, 53, 69, 81, 91, 107, 119, 133, 144-145, 151, 161, 173, 191, 203, 213, 227, 239, 249, 259, 268-269, 279, 289, 303, 317, 327, 334-335, 337, 347, 363, 373, 383, 397, 407, 417, 422-423, 433, 443, 450-451, 453, 463, 479, 489, 493, 496-497, 499, 511
<b>Objective 3</b>	
3.S.1.6.3 Use appropriate tools and techniques to gather and display data. (574.01.c)	pp. 26, 31, 40, 41, 47, 53, 69, 73, 81, 107, 119, 127, 133, 144, 145, 161, 173, 200-201, 213, 217, 231, 239, 243, 246-247, 259, 268, 269, 283, 286-287, 293, 307, 317, 319, 331, 334-335, 339, 347, 349, 363, 373, 377, 380, 381, 383, 397, 404-405, 407, 412, 417, 422, 423, 438, 443, 450-451, 460-461, 463, 469, 479, 481, 486-487, 489, 493, 496-497, 499, 511, 516, R2, R4, R5, R6, R7, R8, R9
<b>Objective 4</b>	
3.S.1.6.4 Use data to construct a reasonable explanation. (574.01.d)	pp. 12, 26, 35, 43, 47, 53, 85, 91, 93, 114, 116-117, 144, 151, 173, 203, 207, 239, 251, 265, 268, 327, 334, 349, 363, 367, 373, 387, 397, 423, 433, 438, 453, 463, 479, 499, 511
<b>Objective 5</b>	
3.S.1.6.5 Make simple predictions based on data. (574.01.e)	pp. 13, 21, 40, 43, 107, 133, 151, 155, 161, 327, 337, 377, 397, 404-405, 447, 479, 481, 493, 505
<b>Objective 6</b>	
3.S.1.6.6 Identify logical alternative explanations. (574.01.f)	pp. 13, 69, 213, 246-247, 249, 268, 443, 463, 481

Objective 7	
3.S.1.6.7 Communicate the results of tests to others. (574.01.g)	pp. 12, 26, 35, 43, 47, 53, 85, 91, 93, 114, 116-117, 144, 151, 173, 203, 207, 239, 251, 265, 268, 327, 334, 349, 363, 367, 373, 387, 397, 423, 433, 438, 453, 463, 479, 499, 511
<b>Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors</b>	
Objective 1: No objectives at this grade level.	
<b>Goal 1.8: Understand Technical Communication</b>	
Objective 1	
3.S.1.8.1 Read and give multi-step instructions. (583.02.a)	pp. 3, 21, 26, 31, 35, 40-41, 43, 47, 50-51, 53, 55, 69, 73, 78-79, 81, 85, 91, 93, 107, 114, 116-117, 119, 127, 133, 137, 144-145, 151, 155, 158-159, 161, 167, 173, 177, 191, 195, 200-201, 203, 207, 213, 217, 227, 231, 239, 243, 246-247, 249, 251, 259, 265, 268-269, 279, 283, 286-287, 289, 293, 303, 307, 317, 319, 327, 331, 334-335, 337, 339, 344-345, 347, 349, 363, 367, 373, 377, 380-381, 383, 387, 397, 401, 404-405, 407, 412, 417, 419, 422-423, 433, 438, 443, 447, 450-451, 453, 457, 460-461, 463, 469, 479, 481, 486-487, 489, 493, 496-497, 499, 505, 511, 516
<b>Standard 2: Physical Science</b>	
<b>Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions</b>	
Objective 1	
3.S.2.1.1 Use instruments to measure properties. (575.01.a)	pp. 13, 81, 161, 213, 317, 339, 347, 373, 377, 380-381, 397, 417, 438, 443, 450-451, 469, 481
Objective 2	
3.S.2.1.2 Identify the physical properties of solids, liquids, and gases. (575.01.b)	pp. 380-381, 382, 383, 384, 385, 386, 387, 388, 389, 392, 393, 396, 397, 398, 399, 400, 401, 402, 403, 404-405, 408, 424, 425, 483, 485, TR56, TR57
Objective 3	
3.S.2.1.3 Explain that heating and cooling can cause changes of state in common materials. (575.01.c)	pp. 397, 398, 399, 458, 459, 481, 482, 483
<b>Goal 2.2: Understand Concepts of Motion and Forces</b>	
Objective 1: No objectives at this grade level.	
<b>Goal 2.3: Understand the Total Energy in the Universe is Constant</b>	
Objective 1	
3.S.2.3.1 Identify potential and kinetic energy. (590.03.a)	pp. 456, 457, 459

<b>Goal 2.4: Understand the Structure of Atoms</b>	
Objective 1: No objectives at this grade level.	
<b>Goal 2.5: Understand Chemical Reactions</b>	
Objective 1: No objectives at this grade level.	
<b>Standard 3: Biology</b>	
<b>Goal 3.1: Understand the Theory of Biological Evolution</b>	
Objective 1	
3.S.3.1.1 Describe the adaptations of plants and animals to their environment. (577.01.a)	pp. 107, 108, 109, 115, 123, 125, 126, 128, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144-145, 146, 147, 148, 152, 153, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 174, 175, 179, 182, 183, 274-275, TR44, TR45, TR46, TR47
<b>Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems</b>	
Objective 1	
3.S.3.2.1 Describe the energy needed for living systems to survive. (578.01.a)	pp. 18, 24, 25, 26, 27, 32, 33, 34, 35, 36, 37, 39, 40-41, 43, 46, 47, 48, 49, 64, 65, 69, 70, 71, 78, 79, 107, 116-117, TR40
Objective 2	
3.S.3.2.2 Compare and contrast the energy requirements of plants and animals. (593.01.a)	pp. 18, 24, 25, 26, 27, 32, 33, 34, 35, 36, 37, 39, 40-41, 43, 46, 47, 48, 49, 64, 65, 69, 70, 71, 78, 79, 107, 116-117, TR40
Objective 3	
3.S.3.2.3 Label a food chain that shows how organisms cooperate and compete in an ecosystem. (578.01.b)	pp. 110-111, 112, 115, 116-117
Objective 4	
3.S.3.2.4 Diagram the food web and explain how organisms both cooperate and compete in ecosystems. (593.01.b)	pp. 112-113, 115
<b>Goal 3.3: Understand the Cell is the Basis of Form and Function for All Living Things</b>	
Objective 1: No objectives at this grade level.	
<b>Standard 4: Earth and Space Systems</b>	
<b>Goal 4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems</b>	
Objective 1	
3.S.4.1.1 Explain the reasons for length of a day, the seasons, and the year on Earth. (594.01.a)	pp. 316, 317, 318, 319, 320, 321, 323, 324, 327, 328, 329, 330, 331, 332, 333, 334-335, 350, 354, 355, TR54, TR55

<b>Goal 4.2: Understand Geo-chemical Cycles and Energy in the Earth System</b>	
Objective 1: No objectives at this grade level.	
<b>Standard 5: Personal and Social Perspectives; Technology</b>	
<b>Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced</b>	
Objective 1	
3.S.5.1.1 Identify local environmental issues. (581.01.a)	pp. 29, 108, 154, 155, 156, 163, 264, 268-269
<b>Goal 5.2: Understand the Relationship between Science and Technology</b>	
Objective 1	
3.S.5.2.1 Describe how technology helps develop tools. (580.01.a)	pp. 28-29, 254, 256-257, 262-263, 282, 283, 284, 285, 286-287, 300-301, 342, 440-441, 464, 465, 466, 467, 470, 471, 472, 475, 486-487, 508-509, R2, R4, R5, R6, R7, R8, R9
Objective 2	
3.S.5.2.2 Describe the development of tools over time. (580.01.b)	pp. 96-97, 130-131, 180-181, 256-257, 333, 352-353, 355, 370-371, 440-441
<b>Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them</b>	
Objective 1	
3.S.5.3.1 Explain the concept of recycling. (581.03.a)	pp. 156, 157, 158-159, 182, 183, 265, 266, 267, 270, 271