

Idaho Extended Content Standards Draft  
Extended Content Indicators  
Grade 2  
Science

Standard 1: Nature of Science - Students identify questions that can be answered through observation, collection, recording, and analysis of data. Students explain that the shape of an item is determined by its function. Students follow multi-step instructions, work cooperatively and use communication skills.

Extended Standard 1: Students respond to questions that can be answered through observation, collection, recording of data. Students classify items by its functional shape. Students follow instructions, work cooperatively and use communication skills.

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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
Interrelated nature of science	2.S.1.2	Understand Concepts and Processes of Evidence, Models, and Explanation	2.S.1.2.1 Make observations, record and interpret data. (558.01.a)		2.S.1.2.1.A Make observation, collect and use data.

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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
Interrelated Nature of Science	2.S.1.3	Understand Constancy, Change, and Measurement	2.S.1.3.1 Measure in standard and non-standard units. (558.01.b)		2.S.1.3.1.A Measure in standard or non-standard units.

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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
	2.S.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	2.S.1.4.1 Apply the concepts of past, present, and future. (558.03.a)		2.S.1.4.1.A Demonstrate the concepts of past, present, and future.

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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
Interrelated Nature of Science	2.S.1.5	Understand Concepts of Form and Function	2.S.1.5.1 Identify shape and use of objects. (558.04.a)		2.S.1.5.1.A Sort objects by shape.

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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	2.S.1.6	Understand Scientific Inquiry and Develop Critical Thinking Skills	2.S.1.6.1 Identify questions to be investigated. (559.01.a)		2.S.1.6.1.A Respond to questions about observation.
			2.S.1.6.2 Make observations. (559.01.b)		2.S.1.6.2.A Make observations, collect, and record data.
			2.S.1.6.3 Analyze information and evidence. (559.01.d)		2.S.1.6.3.A Choose information for evidence.
			2.S.1.6.4 Communicate observations. (559.01.f)		2.S.1.6.4.A Communicate observations.

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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
Interrelated Nature of Science	2.S.1.7	Understand That Interpersonal Relationships Are Important in Scientific Endeavors	2.S.1.7.1 Practice cooperation and interaction skills. (568.01.a)		2.S.1.7.1.A Practice cooperation and interaction skills.

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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	2.S.1.8	Understand Technical Communication	2.S.1.8.1 Follow multi-step instructions. (568.02.a)		2.S.1.8.1.A Follow instructions.



Standard 2: Physical Science - Students describe objects by their properties and explain the affect motion has on an object.

Extended Standard 2: Students sort objects by their properties and demonstrate the affect motion has on an object.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Physical Science	2.S.2.1	Understand the Structure and Function of Matter and Molecules and Their Interactions	2.S.2.1.1 List properties of an object. (560.01.a)		2.S.2.1.1.A Identify properties of an object.

Standard 2: Physical Science - Students describe objects by their properties and explain the affect motion has on an object.

Extended Standard 2: Students sort objects by their properties and demonstrate the affect motion has on an object.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Physical Science	2.S.2.2	Understand Concepts of Motion and Forces	2.S.2.2.1 Explain how force affects the position and motion of objects. (560.01.a)		2.S.2.2.1.A Communicate how force affects the position and motion of objects.

Standard 2: Physical Science - Students describe objects by their properties and explain the affect motion has on an object.

Extended Standard 2: Students sort objects by their properties and demonstrate the affect motion has on an object.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Physical Science	2.S.2.3	Understand the Total Energy in the Universe is Constant	No objectives at this grade level.		No objectives at this grade level.

Standard 2: Physical Science - Students describe objects by their properties and explain the affect motion has on an object.

Extended Standard 2: Students sort objects by their properties and demonstrate the affect motion has on an object.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Physical Science	2.S.2.4	Understand the Structure of Atoms	No objectives at this grade level.		No objectives at this grade level.

Standard 2: Physical Science - Students describe objects by their properties and explain the affect motion has on an object.

Extended Standard 2: Students sort objects by their properties and demonstrate the affect motion has on an object.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Physical Science	2.S.2.5	Understand Chemical Reactions	No objectives at this grade level.		No objectives at this grade level.

Standard 3: Biology - Students list the basic needs of animals.

Extended Standard 3: Students identify basic needs of animals.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Biology	2.S.3.1	Understand the Theory of Biological Evolution	No objectives at this grade level.		No objectives at this grade level.

Standard 3: Biology - Students list the basic needs of animals.

Extended Standard 3: Students identify basic needs of animals.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Biology	2.S.3.2	Understand the Relationship between Matter and Energy in Living Systems	2.S.3.2.1 Identify four basic needs of all living things (food, shelter, water, space). (563.01.a)		2.S.3.2.1.A Identify basic needs of all living things (food, shelter, water, space).
			2.S.3.2.2 Discuss how animals are suited to live in different habitats. (547.01.b)		2.S.3.2.2.A Match animals to their suitable habitats.

Standard 3: Biology - Students list the basic needs of animals.

Extended Standard 3: Students identify basic needs of animals.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Biology	2.S.3.3	Understand the Cell is the Basis of Form and Function for All Living Things	No objectives at this grade level.		No objectives at this grade level.



Standard 4: Earth and Space Systems – Students describe weather conditions.

Extended Standard 4: Students differentiate and respond to weather conditions.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Earth and Space Systems	2.S.4.1	Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems	2.S.4.1.1 Describe the characteristics of different weather conditions. (564.01.b)		2.S.4.1.1.A Identify characteristics of different weather conditions.

Standard 4: Earth and Space Systems – Students describe weather conditions.

Extended Standard 4: Students differentiate and respond to weather conditions.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Earth and Space Systems	2.S.4.2	Understand Geo-chemical Cycles and Energy in the Earth System	No objectives at this grade level.		No objectives at this grade level.

Standard 5: Personal and Social Perspectives; Technology – Students compare man-made and natural environments. Students identify scientific tools.

Extended Standard 5: Students differentiate between man-made and natural environments. Students explore scientific tools.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Environmental Science	2.S.5.1	Understand Common Environmental Quality Issues, Both Natural and Human Induced	2.S.5.1.1 Compare and contrast man-made and natural environments. (566.01.a)		2.S.5.1.1.A Sort man-made and natural environments.

Standard 5: Personal and Social Perspectives; Technology - Students compare man-made and natural environments. Students identify scientific tools.

Extended Standard 5: Students differentiate between man-made and natural environments. Students explore scientific tools.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Technology	2.S.5.2	Understand the Relationship between Science and Technology	2.S.5.2.1 Identify tools people have invented for everyday life and for scientific investigations. (565.01.b)		2.S.5.2.1.A Explore tools that people have invented for everyday life and for scientific investigations.

Standard 5: Personal and Social Perspectives; Technology - Students compare man-made and natural environments. Students identify scientific tools.

Extended Standard 5: Students differentiate between man-made and natural environments. Students explore scientific tools.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Natural Resources	2.S.5.3	Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them	No objectives at this grade level.		No objectives at this grade level.