Idaho Extended Content Standards Draft Extended Content Indicators Grade 3 Science

Standard 1: Nature of Science - Students apply scientific methods to conduct experiments. Students read and give multi-step instructions.

Topic	GR	Goals	Objectives	Essence	Extended Content Indicators
	3.S.1.1	Understand Systems, Order, and Organization	3.S.1.1.1 Label the parts of a system. (573.01.a)		3.S.1.1.A
					Match the parts of a system.
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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
ature of	3.S.1.2	Understand Concepts and Processes of Evidence, Models, and Explanation	3.S.1.2.1 Make observations, collect data and evaluate it. (573.02.a)		3.S.1.2.1.A Make observations, collect and record data.
Interrelated na science			3.S.1.2.2 Replicate and/or use models. (573.02.b)		3.S.1.2.2.A Attend to and/or replicate scientific models.
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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
of	3.S.1.3	Understand Constancy, Change, and	3.S.1.3.1 Measure changes that occur.		3.S.1.3.1.A
nre		Measurement	(573.03.b)		Measure changes that occur.
lati			3.S.1.3.2 Measure in both U.S. Customary		3.S.1.3.2.A
D D			and International System of Measurement		Measure in
elate			(metric system) units. (573.03.c)		U.S. Customary System of Measurement.
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Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
	3.S.1.4	Understand the Theory that Evolution is a	No objectives at this grade level.		No objectives at this grade level.
		Process that Relates to the Gradual Changes in			
		the Universe and of Equilibrium as a Physical			
		State			

Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
lated Nature	3.S.1.5	Understand Concepts of Form and Function	3.S.1.5.1 Describe the relationship between shape and use. (573.05.a)		3.S.1.5.1.A Sort common objects by use.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.1.6	Understand Scientific Inquiry and Develop	3.S.1.6.1 Identify questions that can be		3.S.1.6.1.A
		Critical Thinking Skills	answered by conducting scientific tests.		Generate questions about observations.
			(574.01.a)		
			3.S.1.6.2 Conduct scientific tests (574.01.b)		3.S.1.6.2.A
					Follow steps in scientific test.
			3.S.1.6.3 Use appropriate tools and techniques		3.S.1.6.3.A
			to gather and display data. (574.01.c)		Use appropriate tools to gather data.
			3.S.1.6.4 Use data to construct a reasonable		3.S.1.6.4.A
			explanation. (574.01.d)		Use data to for a reasonable explanation.
			3.S.1.6.5 Make simple predictions based on		3.S.1.6.5.A
			data. (574.01.e)		Make simple predictions based on data.
			3.S.1.6.6 Identify logical alternative		3.S.1.6.6.A
			explanations. (574.01.f)		Select reasonable explanations.
			3.S.1.6.7 Communicate the results of tests to		3.S.1.6.7.A
			others. (574.01.g)		State a result of a test to others.

Topic	Gr	Goal	Objectives	Essence	Extended Content Indicators
e Nature	3.S.1.7	Understand That Interpersonal Relationships Are Important in Scientific Endeavors	No objectives at this grade level.		No objectives at this grade level.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.1.8	Understand Technical Communication	3.S.1.8.1 Read and give multi-step instructions. (583.02.a)		3.S.1.8.1.A Follow multi-step instructions.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.2.1	Understand the Structure and Function of Matter and Molecules and Their Interactions	3.S.2.1.1 Use instruments to measure properties. (575.01.a)		3.S.2.1.1.A Use instruments to measure properties.
nce			3.S.2.1.2 Identify the physical properties of solids, liquids, and gases. (575.01.b)		3.S.2.1.2.A Observe and match physical properties to solids, liquids, or gases.
sical Scie			3.S.2.1.3 Explain that heating and cooling can cause changes of state in common materials. (575.01.c)		3.S.2.1.3.A Observe that heating and cooling can cause changes of state in common materials.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.2.2	Understand Concepts of Motion and Forces	No objectives at this grade level.		No objectives at this grade level.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.2.3	Understand the Total Energy in the Universe is	3.S.2.3.1 Identify potential and kinetic		3.S.2.3.1.A
		Constant	energy. (590.03.a)		Observe potential and kinetic energy.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.2.4	Understand the Structure of Atoms	No objectives at this grade level.		No objectives at this grade level.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.2.5	Understand Chemical Reactions	No objectives at this grade level.		No objectives at this grade level.
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Standard 3: Biology: - Students explore the diversity of plants and animals in their environments. Students demonstrate an understanding of food webs.

Extended Standard 3: Students explore the diversity of plants and animals in their environments. Students demonstrate a simple, basic food web.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.3.1	Understand the Theory of Biological Evolution	3.S.3.1.1 Describe the adaptations of plants and animals to their environment. (577.01.a)		3.S.3.1.1.A Identify when plants and animals adapt to their environment.
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.3.2	Understand the Relationship between Matter and	3.S.3.2.1 Describe the energy needed for		3.S.3.2.1.A
		Energy in Living Systems	living systems to survive. (578.01.a)		Select the energy needed for a living system to
					survive.
			3.S.3.2.2 Compare and contrast the energy		3.S.3.2.2.A
			requirements of plants and animals. (593.01.a)		Identify how energy requirements of plants and
					animals are different.
			3.S.3.2.3 Label a food chain that shows how		3.S.3.2.3.A
			organisms cooperate and compete in an		Organize a simple food chain.
			ecosystem. (578.01.b)		
			3.S.3.2.4 Diagram the food web and explain		3.S.3.2.4.A
Biology			how organisms both cooperate and compete in		Develop a food web.
log gio			ecosystems. (593.01.b)		
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Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.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.
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Standard 4: Earth and Space Systems – Students explore the relationship between the sun and Earth.

Extended Standard 4: Students identify how the sun relates to days and seasons on Earth.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.4.1	Understand Scientific Theories of Origin and	3.S.4.1.1 Explain the reasons for length of a		3.S.4.1.1.A
Φ		Subsequent Changes in the Universe and Earth	day, the seasons, and the year on Earth.		Identify how the sun relates to the length of a day
Dac		Systems	(594.01.a)		and/or the seasons on Earth.
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Standard 4: Earth and Space Systems – Students explore the relationship between the sun and Earth.

Extended Standard 4: Students identify how the sun relates to days and seasons on Earth.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
Space	3.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.
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Standard 5: Personal and Social Perspectives; Technology – Students identify local environmental issues. Students identify the relationship of tools to scientific investigation.

Extended Standard 5: Students participate in identifying local environmental issues. Students explore the relationship of tools to scientific investigation.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	3.S.5.1	Understand Common Environmental Quality	3.S.5.1.1 Identify local environmental issues.		3.S.5.1.1.A
		Issues, Both Natural and Human Induced	(581.01.a)		Recognize local environmental issues.
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Standard 5: Personal and Social Perspectives; Technology - Students identify local environmental issues. Students identify the relationship of tools to scientific investigation.

Extended Standard 5: Students participate in identifying local environmental issues. Students explore the relationship of tools to scientific investigation.

Topic	Gr	Goal	Objective	Essence	Extended Content Indicators
	5.S.5.2	Understand the Relationship between Science and Technology	3.S.5.2.1 Describe how technology helps develop tools. (580.01.a)		3.S.5.2.1.A Explore how technology helps develop tools.
ology			3.S.5.2.2 Describe the development of tools over time. (580.01.b)		3.S.5.2.2.A Order the development of tools over time.
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Standard 5: Personal and Social Perspectives; Technology - Students identify local environmental issues. Students identify the relationship of tools to scientific investigation.

Extended Standard 5: Students participate in identifying local environmental issues. Students explore the relationship of tools to scientific investigation.

	Topic	Gr	Goal	Objective	Essence	Extended Content Indicators	
Γ,	9	3.S.5.3	Understand the Importance of Natural	3.S.5.3.1 Explain the concept of recycling.		3.S.5.3.1.A	
2	5		Resources and the Need to Manage and Conserve Them	(581.03.a)		Uses methods of recycling.	
			Conserve Them				
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