

Science - Grade 1

Idaho Department of Education Content Standards	Objective	Sub Objectives	Task Analysis	Essential Vocabulary	Assessment	Materials & Resources
Cognitive level codes: • B: Memorize • C: Perform procedures • D: Demonstrate understanding • E: Conjecture, generalize, prove • F: Solve non-routine problems, make connections	Bloom's Equivalent • B = Knowledge • C = Comprehension • D = Comprehension • E = Application and Analysis • F = Synthesis					
Standard 1: Nature of Science (The unifying concepts and processes standard can be the focus of instruction at any grade level but should always be closely linked to outcomes aligned with other content standards.)						
Goal 1.1: Understand Systems, Order, and Organization	No objectives at this grade level.					
Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	1.S.1.2.1 Make observations, collect data, and use data. (543.01.a)	• Make observations, collect data, and use data	<ul style="list-style-type: none"> Describe a given object Examine the object Define data Explain methods used to collect information Use collected data to make comparisons 	observation • data • collect information	<ul style="list-style-type: none"> Put two or more objects in front of the student. Have them tell you what they see. Students tell how they collected data about objects. Students make comparisons using data. 	Science walk Activity: http://educationaltoyfactory.com/science_walk.htm
Goal 1.3: Understand Constancy, Change, and Measurement	1.S.1.3.1 Measure in both standard and non-standard units. (543.02.b)	• Measure in both standard and non-standard units	<ul style="list-style-type: none"> Explain units of measurement Describe measurement tools Use objects as non-standard units Use standard units (inches) 	measure • standard units (length, capacity, weight) • non-standard units (paperclip, your feet)	<ul style="list-style-type: none"> Give student an object. Students will measure the object using a standard unit and a non-standard unit. 	Non-standard measurement activity: http://pbskids.org/sid/parentteachers/activities.html?exploringmeasurement
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	1.S.1.4.1 Explain the concepts of past, present, and future. (543.03.a)	• Explain the concepts of past, present, and future.	<ul style="list-style-type: none"> Use calendar to identify yesterday, today, tomorrow Discuss concept of time passing 	past • present • future • before • after • now • today • yesterday • tomorrow	<ul style="list-style-type: none"> Using a calendar student will identify yesterday, today, and tomorrow. Student will draw a picture of a past event, something happening now, and a future event. Students will explain their drawing. 	Concepts of time activity: www2.scholastic.com/browse/article.jsp?id=7111
Goal 1.5: Understand Concepts of Form and Function	No objectives at this grade level.					
Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	1.S.1.6.1 Make and record observations. (544.01.a)	• Make and record observations.	<ul style="list-style-type: none"> Recognize what is to be observed Express how to collect data Describe how to organize and record data Discuss findings Report findings in graph/table 	observe • data • record • graph/table	<ul style="list-style-type: none"> Student will tell what they observed. Explain how they collected, organized, and recorded data. Show graph/table of data. 	
Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors	1.S.1.7.1 Demonstrate cooperation and interaction skills. (553.01.a)	• Demonstrate cooperation and interaction skills.	<ul style="list-style-type: none"> Explain definition of cooperation Discuss how to communicate clearly Discuss social norms Demonstrate ability to work in a group 	cooperation • communication • social norms (taking turns, listening with respect, personal space)	<ul style="list-style-type: none"> Have students work together in cooperative learning groups. Observe their interaction skills. 	
Goal 1.8: Understand Technical Communication	1.S.1.8.1 Follow multi-step instructions. (553.02.a)	• Follow multi-step instructions.	<ul style="list-style-type: none"> Show ability to follow single step direction Use listening skills Use strategies for remembering multi-step directions (repeat, ordinal words) Demonstrate ability to follow multi-step instructions 	direction • multi-step • first • then • next	<ul style="list-style-type: none"> Give student a multi-step direction and have student follow it. 	
Standard 2: Physical Science						
Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions	1.S.2.1.1 Describe properties of objects. (545.01.a)	• Describe properties of objects	<ul style="list-style-type: none"> Recognize properties of objects (weight, color, texture, size) Describe properties of objects by weight, color, texture, size 	weight • color • texture • size • shape	<ul style="list-style-type: none"> Give students an object. Students tell the properties using essential vocabulary. 	
Goal 2.2: Understand Concepts of Motion and Forces	1.S.2.2.1 Describe the position and motion of objects. (ex. revolve, rotate, at rest, float, and fall) (545.02.a)	• Describe the position and motion of objects.	<ul style="list-style-type: none"> Explain the position of an object (up/down, left/right, under/over) Discuss the movement of the object (roll, slide, at rest, forward/backward) Describe the position and motion of objects 	position • movement • revolve • rotate • at rest • float • fall	<ul style="list-style-type: none"> Give student an object. Student describes the motion and position of object. Teacher will manipulate motion/position. Student explains the new position/motion. 	Position & motion activity: books.google.com/books?id=7SPbrbIHLRQC&pg=PA277&lpq=PA27&dq=position+of+objects+activities&source=bl&ots=DsV7b4bb11&sig=4L7XbYjSGGD2JdLd0MbHn_dg&hl=en&ei=JyUxSqCHMZCYtAP1yYDcAw&sa=X&oi=book_result&ct=result&resnum=3

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Goal 2.3: Understand the Total Energy in the Universe is Constant	No objectives at this grade level.					
Goal 2.4: Understand the Structure of Atoms	No objectives at this grade level.					
Goal 2.5: Understand Chemical Reactions	No objectives at this grade level.					
Standard 3: Biology						
Goal 3.1: Understand the Theory of Biological Evolution	1.S.3.1.1 Describe the life cycle of a plant (seed, growth, reproduction, death). (547.01.a)	• Describe the life cycle of a plant (seed, growth, reproduction, death).	<ul style="list-style-type: none"> List the characteristics of a plant Describe the concept of a cycle Discuss the life stages Describe the life stages 	cycle • plant • life stages • seed • growth • reproduction • death	• Draw and label the life cycle of a plant (seed, growth, reproduction, death)	Inside a Seed activity: http://www.atozteacherstuff.com/pages/343.shtml
	1.S.3.1.2 Describe the life cycle of an animal (birth, development, reproduction, death). (547.01.a)	• Describe the life cycle of an animal (birth, development, reproduction, death).	<ul style="list-style-type: none"> List the characteristics of an animal Describe the concept of a cycle Discuss the life stages Describe the life stages 	cycle • animal • life stages • birth • life • babies • death	• Draw and label the life cycle of an animal (birth, development, reproduction, death)	Lifecycle resources: www.emints.org/ethemes/resources/S00001848.shtml
Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems	1.S.3.2.1 State that living things need food to survive. (548.01.a)	• State that living things need food to survive.	<ul style="list-style-type: none"> Define living/non-living things Recognize the essential needs of a living thing 	living thing • non-living thing • survive • need	• Students tell what a living thing needs to survive.	
Goal 3.3: Understand the Cell is the Basis of Form and Function for All Living Things	No objectives at this grade level.					
Standard 4: Earth and Space Science						
Goal 4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems	1.S.4.1.1 Identify the four seasons and their characteristics for a local region. (549.01.a)	Identify the four seasons and their characteristics for a local region.	<ul style="list-style-type: none"> Name the four seasons in order Describe how the weather changes during each season Describe the characteristics for each local season 	seasons • Fall/Autumn • Spring • Summer • Winter • weather • characteristics	<ul style="list-style-type: none"> Recite seasons in order. Write/draw or explain the characteristics of local weather for each season. 	Seasons activity and rubric: http://www.eduplace.com/ss/act/seasons.html
Goal 4.2: Understand Geo-chemical Cycles and Energy in the Earth System	No objectives at this grade level.					
Standard 5: Personal and Social Perspectives; Technology						
Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced	1.S.5.1.1 Identify the characteristics of local natural environments (playground, backyard). (551.01.a)	• Identify the characteristics of local natural environments (playground, backyard)	<ul style="list-style-type: none"> Define environments Discuss natural environments List features of local environments 	environments • local environments • natural environments	• Draw or explain characteristics of a chosen local environment.	(lesson template, modify as you see fit) http://www.eduplace.com/rdg/gen_act/guests/whatdo.html
Goal 5.2: Understand the Relationship between Science and Technology	No objectives at this grade level.					
Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them	No objectives at this grade level.					