

Iowa and Common Core
First Grade

First Grade Mathematics

➤ **Operations and Algebraic Thinking-**

- **Represent and solve problems involving addition and subtraction.**
 - **1.OA.A.1.** Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
- **Understand and apply properties of operations and the relationship between addition and subtraction.**
 - **1.OA.B.3** Apply properties of operations as strategies to add and subtract.
- **Add And Subtract Within 20**
 - **1.OA.C.6.** Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.
- **Work with addition and subtraction equations. 1.OA.D**

➤ **Measurement & Data-**

- **Measure Lengths Indirectly and by Iterating Length Units**
 - **1.MD.A.1.** Order three objects by length; compare the lengths of two objects indirectly by using a third object.
- **Represent and Interpret Data**
 - **1.MD.C.4** Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

First Grade Science

NG=Next Generation Standards

- **NG Heredity: Inheritance and Variation of Traits**
 - **1-LS3-1** Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.
- **NG Structure, Function, and Information Processing-**
 - **1-LS1.A: From Molecules to Organisms: Structure and Function-** All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.
 - **1-LS1.B: Growth and Development of Organisms-** Adult plants and animals can have young. In many kinds of animals, parents and the offspring themselves engage in behaviors that help the offspring to survive.
 - **1-LS1.D: Information Processing-** Animals have body parts that capture and convey different kinds of information needed for growth and survival. Animals respond to these inputs with behaviors that help them survive. Plants also respond to some external inputs.
- **NG Earth's Place in the Universe-**
 - **1-ESS1-2** Make observations at different times of year to relate the amount of daylight to the time of year.
- **Science as Inquiry-**
 - **S.K-2.SI.1** Ask questions about objects, organisms, and events in the environment.
 - Students should answer their questions by seeking information from their own observations, investigations and from reliable sources of scientific.
 - **S.K-2.SI.3** Use tools to gather data and extend the senses.
 - Students use tools such as rulers, thermometers, watches, balances, spring scales, magnifiers and microscopes to extend their senses and their abilities to gather data.
- **Earth & Space-**
 - **S.K-2.ES.2** Understand and apply knowledge of observable information about daily and seasonal weather conditions.
 - Understand that weather changes from day to day and over the seasons.
 - Understand the sun provides the light and heat necessary to maintain the temperature of the earth.

First Grade Science continued...

➤ Life Science

- **S.K-2.LS.1 Understand and apply knowledge of the characteristics of living things and how living things are both similar to and different from each other and from non-living things.**
 - Living things share some common characteristics that are both similar to and different from non-living things.
 - Different species of plants and animals have different observable characteristics by which they can be classified.
- **S.K-2.LS.3 Understand and apply knowledge of the basic needs of plants and animals and how they interact with each other and their physical environment.**
 - Organisms interact with each other and their physical environment.
 - Organisms can survive only in environments in which their needs can be met.

First Grade Social Studies

- **Behavioral Sciences-**
 - **SS.K-2.BS.3 Understand interactions between self and the peer group.**
 - Understand that people often choose to do certain things their own way.
 - **SS.K-2.BS.4 Understand the relationship of the individual to the components of society and culture.**
 - Understand that a community is a group to which a person may belong.
- **Geography-**
 - **SS.K-2.G.2 Understand how geographic and human characteristics create culture and define regions.**
 - Understand the concept of culture.

First Grade English Language Arts

- **Reading Informational Texts- Key Ideas and Details**
 - **RI.1.1.** Ask and answer questions about key details in a text.
 - **RI.1.2.** Identify the main topic and retell key details of a text.
 - **RI.1.3.** Describe the connection between two individuals, events, ideas, or pieces of information in a text.
- **Writing- Production and Distribution of Writing**
 - **W.1.5.** With guidance and support from adults, focus on a topic, respond to questions and suggestions from peers, and add details to strengthen writing as needed.
- **Speaking & Listening- Presentation of Knowledge and Ideas**
 - **SL.1.4.** Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly.
 - **SL.1.5** Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.
 - **SL.1.6** Produce complete sentences when appropriate to task and situation.
- **Language- Vocabulary Acquisition and Use**
 - **L.1.6.** Use words and phrases acquired through conversations, reading and being read to, and responding to texts.

First Grade 21st Century Skills

➤ **Employability Skills-**

- **21.K-2.ES.1 Communicate and work appropriately with others to complete tasks.**
 - Work appropriately and productively with others.
 - Use different perspectives to increase innovation and the quality of work.
 - Use all the appropriate principles of communication effectively.
- **21.K-2.ES.4 Develop initiative and demonstrate self-direction in activities.**
 - Engage in effective problem solving process.

➤ **Civic Literacy-**

- **SS.K-2.PSCL.1 Understand the basic concepts of government and democracy and that the Constitution defines rights and responsibilities of citizens.**
 - Understand rights and responsibilities.

Lesson with Mathematics Standards

<i>Edible Aquifer</i>	1.OA.A.1 (also has Science Standard)
<i>Journal for a Day</i>	1.MD.C.4
<i>Learning to Count w/Grandfathers</i>	1.OA.A.1, 1.OA.B.3, 1.OA.C
<i>Papermaking</i>	1.MD.A.1
<i>Photographing a Math Problem</i>	1.OA.C.6

Lesson with Science Standards (including Next Generation Standards)

<i>Creating a Dichotomous Key with Plant Fractals</i>	1-LS3.1, S.K-2.LS.1
<i>Creating a Dichotomous Key</i>	1-LS1.A, 1-LS1.B, 1-LS1.D
<i>Creating a Photo Book</i>	S.K-2.ES.2
<i>Critter Creations, Children & Parents</i>	1-LS-3-1, S.K-2.LS.1
<i>Making Connections</i>	S.K-2.LS.3
<i>Plants & Animals, Similar & Different</i>	1-LS1.A, 1-LS1.B, 1-LS1.D
<i>Sunlight</i>	1-ESS1-2
<i>Edible Aquifer (Mathematics)</i>	K-2-ETS1-2
<i>Unbelievably, Fantabulous, 10 Yard Hike (21st Century Skills lesson)</i> ..	S.K-2.SI.1, S.K-2.SI.3

Lesson with Social Studies Standards

<i>Power Animal Puppets</i>	SS.K-2.G.2
<i>Planning & Presenting a Play or Puppet Show</i>	SS.K-2.BS.4
<i>Dealing with Conflict Using Power Animals</i>	SS.K-2.BS.3

Lesson with English Language Arts Standards

<i>Environmental Fairytale Activity</i>	RI.1.1, RI.1.2, RI.1.3
<i>Keyboard Game</i>	SL.1.4
<i>Three-Letter Word Forming</i>	L.1.6
<i>Using Power Animals in Storytelling</i>	W.1.5
<i>Kids Speak for the Soil</i>	SL1.4, SL1.5, SL1.6

Lesson with 21st Century Skills Standards

<i>Hide a Penny</i>	21.K-2.ES.1
<i>Nature Recycles, Shouldn't We All?</i>	21.K-2.ES.4
<i>The Unbelievably, Fantabulous, 10 Yard Hike</i>	21.K-2.ES.1 (also has Science standard)
<i>Searching for Meaning through Jigsaw Discussions</i>	SS.K-2.PSCL.1