

First Grade Gardening Unit

Subject Name of Lesson	Iowa/Common Core Concept or Skill	Where to Find It @TeachersGoingGreen.com:
Mathematics		
Journal for a Day	<ul style="list-style-type: none"> • 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 Mathematics
Photographing a Math Problem	<ul style="list-style-type: none"> • 1.OA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. 	First Grade Mathematics Make math problems w/garden shapes
Edible Aquifer	<ul style="list-style-type: none"> • 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. 	First Grade Mathematics Water is essential. Water comes from aquifers, rivers, lakes, etc.
Science		
Composting w/ Worms	<ul style="list-style-type: none"> • K-LS1-1 Use observations to describe patterns of what plants and animals (including humans) need to survive. <i>Science & Engineering Practices</i> <i>Analyzing and Interpreting Data</i> • Use observations (firsthand or from media) to describe patterns in the natural world in order to answer scientific questions. 	Kindergarten Science Worms; important to gardeners.
Sunlight	<ul style="list-style-type: none"> • 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. 	First Grade Science Find connections; sun, garden, food,
Creating a Dichotomous Key	<ul style="list-style-type: none"> • LS1.A: Structure and Function • LS1.B: Growth and Development of Organisms • LS1.D: Information Processing 	First Grade Science Explore weather & climate in a garden.

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Social Studies		
We Need Earth Game	<ul style="list-style-type: none"> • SS.K-2.G.3 Understand how human factors and distribution of resources affect the development of communities and the movement of populations. <ul style="list-style-type: none"> ○ Understand the role that resources play in human's daily lives. • SS.K-2-G.4 Understand how geographic process and human actions modify the environment and how the environment affects humans. <ul style="list-style-type: none"> ○ Understand ways in which people depend on the physical environment. 	<p style="text-align: center;">Second Grade Social Studies</p> <p>Consider the garden depends on Earth, & humans on gardens</p>
Neighborhood Maps	<ul style="list-style-type: none"> • SS.K-2.G.1 Understand the use of geographic tools to locate and analyze information about people, placers, and environments. <ul style="list-style-type: none"> ○ Understand representations of the earth such as maps, globes and photographs. ○ Understand representations of locales and regions on maps and globes. 	<p style="text-align: center;">Kindergarten Social Studies</p> <p>Map the garden or produce dept. or</p>
Unbelievably, Fantastic, 10 Yard Hike	<ul style="list-style-type: none"> • 21.K-2.ES.1 Communicate and work appropriately with others to complete tasks. <ul style="list-style-type: none"> ○ Work appropriately and productively with others. ○ Use different perspectives to increase innovation and the quality of work. 	<p style="text-align: center;">First Grade Social Studies</p> <p>Take a hike in the garden.</p>
English Language Arts		
Environmental Fairy Tale Activity	<ul style="list-style-type: none"> • 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. 	<p style="text-align: center;">First Grade English Language Arts</p> <p>Garden art made w/ recycled stuff</p>
Keyboard Game	<ul style="list-style-type: none"> • SL.1.4 Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly 	<p style="text-align: center;">First Grade English Language Arts</p> <p>Write a persuasive letter about food, nutrition, garden</p>
Using Power Animals in Storytelling	<ul style="list-style-type: none"> • 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. 	<p style="text-align: center;">First Grade English Language Arts</p> <p>Use the garden to inspire</p>

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21st Century Skills		
Nature Recycle, Shouldn't We?	<ul style="list-style-type: none"> • 21.K-2.ES.4 Develop initiative and demonstrate self-direction in activities. <ul style="list-style-type: none"> ○ Engage in effective problem solving process. 	<p style="text-align: center;">First Grade 21st Century Skills</p> <p>Obtaining food from a garden means less packaging. What else can you learn about recycling from the garden?</p>
Unbelievably, Fantastic, 10 Yard Hike	<ul style="list-style-type: none"> • 21.K-2.ES.1 Communicate and work appropriately with others to complete tasks. <ul style="list-style-type: none"> ○ Use different perspectives to increase innovation and the quality of work. ○ Work appropriately and productively with others. 	<p style="text-align: center;">First Grade 21st Century Skills</p> <p>Use technology like rulers, cameras, magnifying glass to examine the ground up close.</p>
Searching for Meaning through Jigsaw Discussions	<ul style="list-style-type: none"> • SS.K-2.PSCL.1 Understand the basic concepts of government and democracy and that the Constitution defines rights and responsibilities of citizens. <ul style="list-style-type: none"> ○ Understand rights and responsibilities. 	<p style="text-align: center;">First Grade 21st Century Skills</p> <p>Find 5 garden or nutrition related books.</p>