Big Idea: Pla	nt/Animal Structures and Functions – Grading Period 4			
Inquiry Question	ons			
Science:				
 What d 	What do all organisms have in common?			
How do	b habitats relate to plants' and animals' lives?			
Technology:				
	the parts on plants and animals help them survive?			
Engineering:				
What parts do plants and animals play in an ecosystem?				
Content Area	Grade Level Standards			
Science	1.LS.3 Make observations of plants and animals to compare the diversity of life in different habitats.			
	1.LS.1 Develop representations to describe that organisms have unique and diverse life cycles, but all have in common birth, growth, reproduction, and death.			
Technology	SLT 10.A Asking questions and making observations helps a person to figure out how things work.			
	SLT 12.A Discover how things work.			
Engineering	SLT 11.B Build or construct an object using the design process.			
	SLT 11.C Investigate how things are made and how they can be improved.			
	SLT 15.B There are many different tools necessary to control and make up the parts of an ecosystem.			

1.G.2. Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional Mathematics shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape. (Students do not need to learn formal names such as "right rectangular prism.") 1.OA.2. Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem 1.MD.2. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps. 1.MD.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. 1.MD.1. Order three objects by length; compare the lengths of two objects indirectly by using a third object. 1.OA.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. (See Table 1.) 1.NBT.1. Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. 1.NBT.4. Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction: relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. 1.NBT.6. Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. 1.3.4 Identify and describe physical features* and human features* of the local community including home, school and neighborhood. **Social Studies 1.3.6** Explain the effect of seasonal change on plants, animals, and people.

Reading: Informational Text	
CCSS.ELA-Literacy.RI.1.1 Ask and answer questions about key details in a text.	
CCSS.ELA-Literacy.RI.1.2 Identify the main topic and retell key details of a text.	
CCSS.ELA-Literacy.RI.1.3 Describe the connection between two individuals, events, ideas, or pieces of information in a text.	
CCSS.ELA-Literacy.RI.1.4 Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.	
CCSS.ELA-Literacy.RI.1.5 Know and use various text features (e.g., headings, tables of contents, glossaries, electronic menus, ic key facts or information in a text.	cons) to locate
CCSS.ELA-Literacy.RI.1.6 Distinguish between information provided by pictures or other illustrations and information provided a text.	l by the words in
CCSS.ELA-Literacy.RI.1.7 Use the illustrations and details in a text to describe its key ideas.	
CCSS.ELA-Literacy.RI.1.8 Identify the reasons an author gives to support points in a text.	
CCSS.ELA-Literacy.RI.1.9 Identify basic similarities in and differences between two texts on the same topic (e.g., in illustrations or procedures).	s, descriptions,
CCSS.ELA-Literacy.RI.1.10 With prompting and support, read informational texts appropriately complex for grade 1.	
Writing	
CCSS.ELA-Literacy.W.1.2 Write informative/explanatory texts in which they name a topic, supply some facts about the topic, a some sense of closure.	ind provide
CCSS.ELA-Literacy.W.1.5 With guidance and support from adults, focus on a topic, respond to questions and suggestions from details to strengthen writing as needed.	peers, and add
CCSS.ELA-Literacy.W.1.6 With guidance and support from adults, use a variety of digital tools to produce and publish writing, i collaboration with peers.	including in
CCSS.ELA-Literacy.W.1.7 Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a giv use them to write a sequence of instructions).	ven topic and
CCSS.ELA-Literacy.W.1.8 With guidance and support from adults, recall information from experiences or gather information fr sources to answer a question.	om provided
Speaking and Listening	
CCSS.ELA-Literacy.SL.1.1 Participate in collaborative conversations with diverse partners about grade 1 topics and texts with p in small and larger groups.	eers and adults
CCSS.ELA-Literacy.SL.1.1a Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time a and texts under discussion).	about the topics
CCSS.ELA-Literacy.SL.1.1b Build on others' talk in conversations by responding to the comments of others through multiple ex-	changes.
CCSS.ELA-Literacy.SL.1.1c Ask questions to clear up any confusion about the topics and texts under discussion.	0
CCSS.ELA-Literacy.SL.1.2 Ask and answer questions about key details in a text read aloud or information presented orally or th	rough other

media.

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CCSS.ELA-Literacy.SL.1.3 Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.

CCSS.ELA-Literacy.SL.1.4 Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly. CCSS.ELA-Literacy.SL.1.5 Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings. CCSS.ELA-Literacy.SL.1.6 Produce complete sentences when appropriate to task and situation. (See grade 1 Language standards 1 and 3 here for specific expectations.)

Science Process Standards

Science Process Standards

The Nature of Science

Use a scientific notebook to record predictions, questions and observations about data with pictures, numbers or in words.

□ Conduct investigations that may happen over time as a class, in small groups, or independently.

Generate questions and make observations about natural processes.

 \Box Make predictions based on observations.

Discuss observations with peers and be able to support your conclusion with evidence.

□ Make and use simple equipment and tools to gather data and extend the senses. □ Recognize a fair test.

The Design Process

 \Box Identify a need or problem to be solved.

Document the design throughout the entire design process.

□ Brainstorm potential solutions.

 \Box Select a solution to the need or problem.

 \Box Select the materials to develop a solution.

 \Box Create the solution.

 \Box Evaluate and test how well the solution meets the goal.

Communicate the solution with drawings or prototypes.

Communicate how to improve the solution.

Standards for Mathematical Practice

Mathematical Practices

MP.1. Make sense of problems and persevere in solving them.
MP.2. Reason abstractly and quantitatively.
MP. 3 Construct viable arguments and critique the reasoning of others.
MP.4. Model with mathematics.
MP.5. Use appropriate tools strategically.
MP.6. Attend to precision.
MP.7 Look for and make use of structure.
MP. 8 Look for and express regularity in repeated reasoning.

Plan of Work				
Common Misconceptions				
What misconceptions might	students have with these ideas?			
The purpose of plant and anima	al parts.			
How plants and animals grow.				
Suggested Activities				
the correct steps in plar	ed on their own choosing what types of soil they feel will best work for growing their plant. Students then will do a "how to" writing on nting a seed and caring for it. Students will then write in their journals daily to record observations they are observing in their plants s will be able to label all parts of a plant and have knowledge of what each part does for the plant.			
Suggested Vocabulary	Structure, function, habitats, stem, petal, leaf, flower, roots, adaptations, predators, life cycle, food chain, survival, environment			
Resources	http://www.scholastic.com/teachers/lesson-plan/let39s-plant			
	http://www.enchantedlearning.com			
	http://www.theteachersguide.com/plantsflowers.htm			
Assessment				
Type of Assessment	Example			
\boxtimes Observation	Students will make daily observation that they record in their journal based on the growth of their plants.			
☑ Oral Questioning	Students will be asked questions throughout the process which will give the teacher an opportunity to see what they have learned.			
🗆 Exit Slip				
🖂 Journal	Students daily recordings will be assessed.			
Graphic Organizers	Students will label the parts of plants and animals.			
\Box Self-Assessment				
🛛 Writing Prompt	Student's will create "how to" books on planting flowers			
□ Presentation				
Electronic media				
□Think Pair Share				
\Box Whiteboards				
Experiment/projects	Students will attempt to grow a flower based on the information they have learned and figure out the needs of the plant.			
Quiz				