



Vitarinaranoo







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WHAT CAN I LEARN ABOUT PLANTS IN THE GARDEN?

- I can explain how plants are part of a healthy diet.
- I can explain how a garden can provide a wide variety of healthy foods.
- I can gather evidence to support a claim.
- I can analyze evidence and explain how the evidence supports a claim.

Vocabulary	Illustration/Example	Definition
CLAIM		A conclusion about a problem. Answers: What do you know?
EVIDENCE		Data that is sufficient and appropriate to support the claim. Answers: How do you know it?
REASONING		A justification that shows why your evidence supports the claim. Answers: Why can this evidence be used in support of the claim?
SAMPLE CLAIM	 Select one: Plants are an essential part of a he Plants are used by people from all maintain a healthy diet. Eating a variety of plants and plant nutritional benefits. 	althy diet. cultures, including my own, to parts is necessary to get the mc
SAMPLE EVIDENCE		
SAMPLE REASONING		
INVESTIGATION: Plants	s from the garden can provide much of	what I need in a healthy diet.
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Essential Question

WHAT CAN I LEARN ABOUT SEEDS IN THE GARDEN?

- I can explain the role seeds play in the life cycle of a plant.
- I can classify seeds into monocot and dicot based on evidence I observe.

What do you already know about seeds?

Vocabulary	Illustration/Example	Definition
SEEDS		The part of a plant that contains all of the necessary materials and information for plant life
COTYLEDON		One or more leaves contained in a seed.
DICOT DI-COT		A seed that has two cotyledons and produc- es other unique plant features.
MONOCOT MON-O-COT		A seed that has one cotyledon and produces other unique plant features.
SEED COAT		Protects the seed from insects, disease, and moisture.
What structures do seeds have that support the beginning of a plant?		
What parts of the plant can be used to predict whether a plant's seed was dicot or monocot?		
How can seeds be used to support a healthy diet?		





Roots	Stems	Leaves	Flowers	
<u></u>	and the second se		NS 110,000,000	
Classification	1:			
Plant 2:				
Roots	Stems	Leaves	Flowers	
Classificatior	1:			
Plant 3:				
Roots	Stems	Leaves	Flowers	
Classificatior	1:			
Plant 4:				
Roots	Stems	Leaves	Flowers	
Classificatior	1:			
ry statement upports the c	or statements the claim for this inve	at explain how the stigation.	evidence	
	Roots Classification Plant 3: Roots Classification Plant 4: Roots Classification Classification ry statement upports the c	Roots Stems Classification:	Roots Stems Leaves Classification:	





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WHAT CAN I LEARN ABOUT SEEDS IN THE GARDEN?

	Illustration/Example	Definition
SEED		
DISPERSAL		
What ways can seeds be dispersed?		
What do seeds need		
 If none of the method hypothesis about hov Record evidence for a Clean lab station as di 	s above seem correct, examine the s v else the seed may be dispersed. any claims for seed dispersion. irected by the teacher.	eed structure further to mak
4. If none of the method 5. hypothesis about how 6. Record evidence for a 7. Clean lab station as di Seed 1. Record the nam Description/Illustration	s above seem correct, examine the s v else the seed may be dispersed. any claims for seed dispersion. irected by the teacher. e of the plant if possible: Type of Seed Dispersion	eed structure further to mak
4. If none of the method 5. hypothesis about how 6. Record evidence for a 7. Clean lab station as di Seed 1. Record the nam Description/Illustration	s above seem correct, examine the s v else the seed may be dispersed. any claims for seed dispersion. irected by the teacher. e of the plant if possible: Type of Seed Dispersion ne of the plant if possible:	eed structure further to mak Evidence for Claim

READY, SEEDS GARDEN SET, WE EAT AS A LAB GROW!



Essential Question

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WHAT CAN I LEARN ABOUT SEEDS IN THE GARDEN?

Description/Illustration Type of Seed Dispersion Evide Seed 4: Record the name of the plant if possible: Description/Illustration Type of Seed Dispersion Evide Seed 5: Record the name of the plant if possible: Description/Illustration Type of Seed Dispersion Evide Description/Illustration Type of Seed Dispersion Evide Seed 5: Record the name of the plant if possible: Description/Illustration Evide Description/Illustration Type of Seed Dispersion Evide SUMMARY: CER - Use complete sentences. Write a claim about how plants use seed structures to ensure reproduction Evidence 1: Evidence 1: Evidence 1:	lence for Claim
Seed 4: Record the name of the plant if possible: Description/Illustration Type of Seed Dispersion Evide Seed 5: Record the name of the plant if possible: Description/Illustration Type of Seed Dispersion Evide Description/Illustration Type of Seed Dispersion Evide SUMMARY: CER - Use complete sentences. Write a claim about how plants use seed structures to ensure reproduction Evidence 1: Evidence 1:	
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SUMMARY: CER - Use complete sentences. Write a claim about how plants use seed structures to ensure reproduction Evidence 1:	lence for Claim
Evidence 2:	
Evidence 3:	
Reasoning: Provide a reason that shows the evidence provided supports th	



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Question

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HOW CAN SEEDS HELP ME BE HEALTHY?



READY, SEEDS GARDEN TO SET, WE EAT KITCHEN GROW!









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HOW CAN SEEDS HELP ME BE HEALTHY?

Product	Serving Size *estimated	Calories per Serving	Other Nutrients per Serving	Cost per Serving
Walnuts	1/4 cup	183		\$0.45
Pistachio	1/4 cup	156		\$0.39
Peanuts	1/4 cup	166		\$0.10
Almonds	1/4 cup	163		\$0.40
Chia Seeds	2 3/4 cup	137		\$0.28
Flax Seeds	1 Tbsp	55		\$0.15
Rolled Oats	1/2 cup	80		\$0.12
Puffed Rice	1 cup	56		\$0.15
Peanut Butter	2 Tbsp	193		\$0.15
Sunflower Butter	2 Tbsp	200		\$0.38
Raisins	1/4 cup	85		\$0.16
Chocolate Chips	1/8 cup	70		\$0.51

• For ingredients not included here try searching on:

• Walmart for cost per ounce.

• USDA - FoodData Central for nutrition information including calories, vitamins, minerals, sugar, and fat.





③ TASTING RUBRIC

Cinteria	Beginning (1)	Acceptable (2)	Recommended (3)	Award-Winning (4)
NUTRITION VALUE	Recipe has some elements of the chef's plate but also has some ingredients that are less healthy choices.	Recipe uses mostly healthy foods but does not include all elements of the chef's plate or they are not in the recommend- ed portions.	Recipe uses ingredients that are healthy and it contains foods from the chef's plate in correct portions.	Recipe uses all healthy ingredients and the proportions are nearly the same as what is recom- mended on the chef's plate.
TASTE AND PRESENTATION	The recipe is good to try but not something I would choose again.	The recipe is good. I would eat it again, but it could be improved.	This recipe is something I would select again.	The recipe is delicious and presented well. I would recommend or make it for others.



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Essential Question

WHAT CAN I LEARN ABOUT ROOTS IN THE GARDEN?

- I can explain the role roots play in the life cycle of a plant.
- I can use observations to make predictions about what types of roots plants in the garden have.
- I can make predictions about how root structures are related to the needs of plants.

What do you already know about roots?

Vocabulary	Illustration/Example	Definition
ROOTS		The part of the plant tha provides an anchor and takes up water and nutrients that the plant needs to grow.
TAPROOTS TAP-ROOTS		A roots system where there is one larger root and many other smaller roots.
FIBROUS ROOTS FIB-ROUS		A root system where there are many roots that are the same or similar size.
OSMOSIS OS-MO-SIS		The process by which molecules of a solvent pass through a semiper- meable membrane (some cells can pass through; others cannot) from an area of higher concentration to lower concentration.
What structures do roots have that help them support the growth of a plant?		
What roots can be eaten as part of a healthy diet?		





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WHAT CAN I LEARN ABOUT ROOTS IN THE GARDEN?

root sy	ystem?
Plant 1:	
Type of s	seed:
Other ev	idence that would help determine the root structure:
Classifica	ation prediction:
Plant 2:	
Type of s	seed:
Other ev	idence that would help determine the root structure:
Classifica	ation prediction:





Plant 3: Type of seed: Other evidence that would help determine the root structure: **Classification prediction:** Plant 4: Type of seed: Other evidence that would help determine the root structure: **Classification prediction:** SUMMARY: How do the root structures of plants relate to other parts of the plant?





WHAT CAN I LEARN ABOUT ROOTS IN THE GARDEN?

PROCEDURE:

- 1. Pour 100 ml water into each beaker.
- 2. Add 1 Tbsp Of salt to one beaker and 3 Tbsp of salt into another beaker. One beaker contains no added salt.
- 3. Slice potatoes into three even slices. Cut each slice into squares that are all the same dimensions. Cut squares in half. (If using a cork borer, do the
- same procedure to make two equal-sized tubes for each beaker.) 4. Add both halves of each slice to each beaker. Each beaker will have two equal-sized potato parts.
- 5. All potatoes sit in solution for 20 minutes.
- 6. Record data for each potato in the data chart below.
- 7. After data is recorded, discard potatoes and solution.

Data:		
Beaker 1: No Salt	Beaker 2: 1 Tbsp Salt	Beaker 3: 3 Tbsp Salt
Color:	Color:	Color:
Measurements Length: Width: Weight:	Measurements Length: Width: Weight:	Measurements Length: Width: Weight:
Description: Turgid (stiff/crisp) Flaccid (puffy/soft)	Description: Turgid (stiff/crisp) Flaccid (puffy/soft)	Description: Turgid (stiff/crisp) Flaccid (puffy/soft)
Other Observations:	Other Observations:	Other Observations:

In the space provided, or on separate paper create a data table to record the results of the experiment:





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WHAT CAN I LEARN ABOUT ROOTS IN THE GARDEN?

How does your data demonstrate the concept of osmosis?	
How does the osmosis process help plants get what they need?	
Making Predictions: Based might gain from eating root	on what you know about how roots function, explain what human ts and what we might need to be cautious about when eating root
SUMMARY: How do the root format to support you have made.	structures of plants relate to other parts of the plant? Use the CER a claim based on the data collected above and other observation
Claim:	
Evidence 1:	
Evidence 2:	
Evidence 3:	
Reasoning:	



READY, ROOTS GARDEN TO SET, WE EAT KITCHEN GROW!



③ TASTING RUBRIC:

Criteria	Beginning (1)	Acceptable (2)	Recommended (3)	Award-Winning (4)
NUTRITION VALUE	Recipe has some elements of the chef's plate but also has some ingredients that are less healthy choices.	Recipe uses mostly healthy foods but does not include all elements of the chef's plate or they are not in the recommend- ed portions.	Recipe uses ingredients that are healthy and it contains foods from the chef's plate in correct portions.	Recipe uses all healthy ingredients and the proportions are nearly the same as what is recom- mended on the chef's plate.
TASTE AND PRESENTATION	The recipe was good to try but not something I would choose again.	The recipe is good. I would eat it again, but it could be improved.	This recipe is something I would select again.	The recipe is delicious and presented well. I would recommend or make it for others.
TOTALS				





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WHAT CAN I SHARE ABOUT ROOTS IN THE GARDEN?

What roots are eaten as a part of the diet? Region 2: What roots are eaten as a part of the diet? Region 3: What roots are eaten as a part of the diet? How Can those roots be used to make food? Select one or two roots and locate a recipe form an online search or database. Provide a link or print the recipe. SUMMARY: What can I share with someone I care about to help them make root vegetables a part of their healthy diet?	Region 1:	
Region 2:	What roots are eaten as a part of the diet?	
What roots are eaten as a part of the diet? Region 3: What roots are eaten as a part of the diet? How can those roots be used to make food? Select one or two roots and locate a recipe from an online search or database. Provide a link or print the recipe. SUMMARY: What can I share with someone I care about to help them make root vegetables a part of their healthy diet?	Region 2:	
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How can those roots be used to make food? Select one or two roots and locate a recipe from an online search or database. Provide a link or print the recipe. SUMMARY: What can I share with someone I care about to help them make root vegetables a part of their healthy diet?	What roots are eaten as a part of the diet?	
SUMMARY: What can I share with someone I care about to help them make root vegetables a part of their healthy diet?	How can those roots be used to make food? Select one or two roots and locate a recipe from an online search or database. Provide a link or print the recipe.	
	SUMMARY: What can I share part of their hea	with someone I care about to help them make root vegetables a thy diet?





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WHAT CAN I LEARN ABOUT STEMS IN THE GARDEN?

Vocabulary	Illustration/Example	Definition
STEM		The part of a plant that transports water, nutrients, and food to the entire plant.
XYLEM (XY-LEM)		Plant tissue that moves water and nutrients from the roots to the leaves.
PHLOEM (PHLO-EM)		Plant tissue that moves food from the leaves to the rest of the plant.
CAMBIUM		Cells that make new xylem/phloem as the plant grows.
EPIDERMIS		Exterior of the stem tha provides protection and minimizes water loss.
AERIAL STEMS		Stems that grow above the ground.
SUBAERIAL STEMS		Stems that grow across or parallel to the ground (runners and suckers).
• Rhizomes • Tubers • Bulbs		Stems that grow below the surface and can sometimes be confused with roots.







What stems can be eaten as part of a healthy diet?	
© GARDEN INVESTIGATION	What evidence can I find to show that all stems have some similar structures, but also have unique structures that support growth?
Plant 1:	Observation: Describe or illustrate the stem system in this plant.
	Classification: What type of stem system does this plant have?
Plant 2:	Observation: Describe or illustrate the stem system in this plant.
	Classification: What type of stem system does this plant have?







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WHAT CAN I LEARN ABOUT STEMS IN THE GARDEN?

NVESTIGATION VOCABULARY:		
Stem		
Vascular bundle (xy	lem/phloem)	
Epidermis		
Stem modifications	(runners, suckers, rhizomes,	tubers, bulbs, thorns)
	· · · · · · · · · · · · · · · · · · ·	,
Phase 1 (10 minutes	9	
Select two plants o	owing in or near the garden	as samples for the investigation
Four-person lab gro	ups will work in pairs to start	
Make observations	about the stem's exterior par	ts and modifications.
Make a cross section	n of the stem to view its inter	rior structures.
Use a microscope o	or magnifying glass to further	investigate the interior
Access an illustratio	m. In or diagram of that plant on	line to ensure proper identifica-
tion of stem parts.		
Create a diagram o	f the stem parts and modifica	tions with labels.
PROCEDURE:		
Phase 2 (20 minute	s)	
Select two plants g	owing in or near the garden	as samples for the investigation.
Four-person lab gro	oups will work in pairs to start	
Make observations	about the stem to view its inter	rior structures
Use a microscope o	or magnifying glass to further	investigate the interior
structures in the ste	m.	
Access an illustration	n or diagram of that plant on	line to ensure proper identifica-
tion of stem parts.		ti a na susiti a la la a la
Create a diagram o	the stem parts and modifica	tions with labels.
Diagram of Stem	Exterior:	Interior:
Sample with Labels:		
Xylem, phloem, cambi-	Constant Providence	
um, epidermis,		
stem modifications,		
other observed		
elements		
	A REAL PROPERTY OF THE REAL PR	





Diagram of Stem Sample with Labels: Xylem, phloem, cambi- um, epidermis, stem modifications, other observed elements	Exterior:	Interior:
Affirmation/ Extension 1	Affirmation	Extension
Affirmation/ Extension 2	Affirmation	Extension
SUMMARY/ANALYSIS: Explain va reproduct	arious ways that stems w ion of a plant.	ork to support the growth and

BIG Pg.47



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Essential HOW C

HOW CAN STEMS HELP ME BE HEALTHY?

 Wash hands and previous possible. You will have 20-30 Prepare eight tastiniby the group and fo Use the tasting rubribute clean prepare and another the stress of t	ep area as instructed for safe food handling. Select in the recipe and Nutrition Cards for as many ingredients as minutes to prepare the recipe as directed. g samples for the class if appropriate. Four will be sampled ur are for other classmates. ic to rate all items sampled. d cooking materials.
What are the key ngredients of the recipe we chose?	
What health benefits are part of this recipe? * Nutrition Cards	
What do I like about this recipe?	
What could be improved in this recipe?	
What did I learn from the other kitchen groups?	
How are the recipes I tried similar or different from those I eat at home?	
UMMARY: Using your experi- stems to promote	ence in the lab and/or kitchen, describe ways that you can eat health for you and/or your family.





TASTING RUBRIC

Criteria	Beginning (1)	Acceptable (2)	Recommended (3)	Award-Winning (4)
NUTRITION VALUE	Recipe has some elements of the chef's plate but also has some ingredients that are less healthy choices.	Recipe uses mostly healthy foods but does not include all elements of the chef's plate or they are not in the recommend- ed portions.	Recipe uses ingredients that are healthy and it contains foods from the chef's plate in correct portions.	Recipe uses all healthy ingredients and the proportions are nearly the same as what is recom- mended on the chef's plate.
TASTE AND PRESENTATION	The recipe was good to try but not something I would choose again.	The recipe is good. I would eat it again, but it could be improved.	This recipe is something I would select again.	The recipe is delicious and presented well. I would recommend or make it for others.
TOTALS		No. Contraction		











□ Other criteria our class established including:

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WHAT CAN I LEARN ABOUT LEAVES IN THE GARDEN?

Vocabulary	Illustration/Example	9	Definition	
LEAF	The part of the leaf that makes food for the plant to grow.	The part of the leaf that makes food for the plant to grow.		
PHOTOSYNTHESIS	A chemical reaction that converts sunlight, carbon dioxide, and water into sugar (food) for plants.	A chemical reaction that converts sunlight, carbon dioxide, and water into sugar (food) for plants.		
CHLOROPLASTS	Plant organelles (part of a plant cell) that contain chlorophylls and are the site of photosynthesis.			
CHLOROPHYLL	A green pigment found in leaves that is photosynthetic and uses energy from the sun to create food. It is the reason leaves appear green.			
Diagram and the parts of a leaf:	Simple Leaf	Compound	d Leaf	
Leaf Characteristics:	Arrangement: opposite/ alternating Margins: smooth/wavy, toothed, bristle-top Base: rounded, tapering uneven heart-shaped			

G Pg.58

READY, LEAVES SET, GROW!



Plant 1:	Classification	
	Туре:	
	Arrangement:	
	Margin:	
	Base:	
Plant 2:	Classification	
	Туре:	
	Arrangement:	
	Margin:	
	Base:	
Plant 3:	Classification	
	Туре:	
	Arrangement:	
	Margin:	
	Base:	
ADDITIONAL EVIDENCE/ OBSERVATIONS		





SUMMAR	Y: Write a CER to answer the question: How does the structure of a leaf help the plant to grow and/or predict the type of environment it needs?
Claim:	
Eviden	ce 1:
Eviden	ce 2:
Eviden	ce 3:
Reasor	ning (how the evidence supports the claim):

BIG Pg.60

LEAVES GARDEN AS A LAB WE EAT







Lab Sample 5	Illustration/Description of Leaf	Changes observed in the leaf after iodine is applied to leaf:
Identify the claim and evidence presented in the article provided.		
SUMMARY/ANALYSIS: Co far.	nsider all of the evidence collected Record the following:	in the various investigations thus
Claim:		
Evidence 1:		
Evidence 2:		
Evidence 3:		
Reasoning:		

READY, LEAVES GARDEN TO SET, GROW!



What are the key ingredients of the recipe we chose?	
What health benefits are part of this recipe? *Nutrition Cards	
What do I like about this recipe?	
What could be improved in this recipe?	
What did I learn from other kitchen groups?	
How are the recipes I tried similar or different from those I eat at home?	
SUMMARY: Using your exper leaves to promot	ience in the lab and/or kitchen, describe ways that you can eat e health for you and/or your family.





Criteria	Beginning (1)	Acceptable (2)	Recommended (3)	Award-Winning (4)
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TASTE AND PRESENTATION	The recipe is good to try but not something I would choose again.	The recipe is good. I would eat it again, but it could be improved.	This recipe is something I would select again.	The recipe is delicious and presented well. I would recommend or make it for others.
TOTALS				





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HOW CAN I SHARE WHAT I LEARNED ABOUT LEAVES?

	What is my claim about leaves as part of a healthy diet?		
What will I include in my infographic as evidence to persuade the reader?			
ext 💦	Images, Charts, Symbols		
IMMARY: (serves as a concluding se	entence) What do you want people to do after learning		
about the function of leave	es for plants and people?		







Big Pg.72



FRUITS AND FLOWERS WE EAT



READY,

SET,

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GROW!

WHAT CAN I LEARN ABOUT FRUITS AND FLOWERS IN THE GARDEN?

What do you already know about fruits and flowers?			
Vocabulary	Illustration/Example	Definition	
FLOWER		The part of the plant that supports plant reproduction (often beautiful in many ways).	
FRUIT		The part of the plant that protects the seed from the surrounding environment. I is the ripened ovary of the flower.	
STAMEN		Male reproductive part of the flower which includes an anther and filament.	
PISTIL		Female reproductive part of the flower which includes the stigma, style, ovary, and ovule.	
EXOCARP		The outer layer of the fruit.	
MESOCARP		The fleshy inner layer of fruit between the exocarp and the seed.	
How are the fruits and flowers of plants similar and different?			
How do variations in fruit and flower structures help each plant survive in its environment?			



FRUITS AND FLOWERS WE EAT



How can eating fruits and flowers help us maintain a healthy diet?	
What evidence can I find also have unique structur	to show that all flowers and fruits have some similar structures, but es that support growth?
Plant 1:	Observation: Describe or illustrate the flower structure.
	Classify as Perfect or Imperfect
Plant 2:	Observation: Describe or illustrate the flower structure.
	Classify as Perfect or Imperfect
Plant 3:	Observation: Describe or illustrate the flower structure.
	Classify as Perfect or Imperfect
Additional Evidence/Observations	
SUMMARY: How do fruits a	nd flowers help plants continue their life cycle?





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WHAT CAN I LEARN ABOUT FRUITS AND FLOWERS IN THE GARDEN?

ripening in the repro- ductive cycle of the plant?			
What is the chemical process(es) that cause ripening to occur?			
What variables affect the process of ripening?			
 Using informative ripening proces Place one fru Place one fru Place the temp Place the oth Identify two settest. Record the temp Wait for instru Complete data 	ation from the s of the fruit ye it sample in a perature of the er two fruits in eparate location emperature in t inctions to com ata collection a	articles, identify three ou have selected. location designated a ag with a banana in t e control location. a separate bags with ons for the other two those locations. pare data across lab and clean up lab stati	e variables that will affect the as the control location. he same location. a banana in each. bags that present a variable to groups. on.
DAY 1:	Control	Tomporaturo	Observation of test fruit
ab Sample 1	Control	remperature	







Lab Sample 2	Variable	Temperature	Observation of Fruit
Lab Sample 3	Variable	Temperature	Observation of Fruit
Lab Sample 4	Variable	Temperature	Observation of Fruit
Day 2: Lab Sample 1	Variable	Temperature	Observation of Fruit
Lab Sample 2	Variable	Temperature	Observation of Fruit
	Valiable		
Lab Sample 3	Variable	Temperature	Observation of Fruit
Lab Sample 4	Variable	Temperature	Observation of Fruit

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Day 3:			
Lab Sample 1	Control	Temperature	Observation of Fruit
Lab Sample 2	Variable	Temperature	Observation of Fruit
Lab Sample 3	Variable	Temperature	Observation of Fruit
Lab Sample 4	Variable	Temperature	Observation of Fruit
Day 4:			
Lab Sample 1	Control	Temperature	Observation of Fruit
Lab Sample 2	Variable	Temperature	Observation of Fruit
Lab Sample 3	Variable	Temperature	Observation of Fruit
Lab Sample 4	Variable	Temperature	Observation of Fruit

BIG Pg.81



SUMMARY:	Write a CER to explain what you learned about the ripening process of fruit.
Claim:	
Evidence	e 1:
Evidence	e 2:
Evidence	e 3:
Reasonii	ng:

BIG Pg.82

READY, FRUITS AND FLOWERS WE EAT GARDEN TO SET, GROW!



Essential Question

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HOW CAN THE GARDEN HELP ME BE HEALTHY?

lary is relate preservatio	tant vocabu- ed to food n?	
List/describ more metho preservatio those meth effective.	e five or ods for food n and why ods are	
Identify any (pros) or dis (cons) relate preservatio	advantages advantages ed to food n.	
How is food tion similar from how n preserves o preserved f	d preserva- or different ny family or eats food?	
PROCEDURE:	Access the free Follow the proc	zing process for the fruit or flower you have chosen for this lab. edure described.
SUMMARY:	Using your exp fruits and flowe	erience in the lab and/or kitchen, describe ways that you can eat rs to promote health for you and/or your family.







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HOW CAN I SHARE WHAT I LEARNED ABOUT FOOD FROM THE GARDEN?

