Radishes! -



GPS/CC Standards:

WK2. Students will use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.

W12. Students will write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure.

W22. Students will write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.

SKCS3. Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.

a. Use ordinary hand tools and instruments to construct, measure

S1CS3. Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.

a. Use ordinary hand tools and instruments to construct, measure, and look at objects.

S2CS3. Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.

a. Use ordinary hand tools and instruments to construct, measure, and look at objects.

KMDB3. Students will write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.

1MDC4. Students will 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.

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2MDD10. Students will draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, takeapart, and compare problems using information presented in a bar graph.

Materials Needed:

- Book "Carrots Grow Underground" by Mari Schuh
- · Radish Seed Packet
- Enlarged Seed Packet Image (included)
- Seed Catalog (image of radish page included)
- Magnifying Glasses
- Rulers
- Two or Three Varieties of Radishes
- Five Senses Chart (included)
- Poem Worksheet (included)
- Crayons

Time Needed: 45 min

Goal: Students are introduced to different types of radishes and connect their radish observation to writing and math.

Objectives:

- Students observe and learn about several varieties of radishes.
- Students record observations and use them to write a poem.
- Students create a line plot to record the results of a class tasting and interpret the data.

Outline

- Engage: Read "Carrots Grow Underground" by Mari Schuh (http://www.amazon.com/Carrots-Grow-Underground-Fruits-Vegetables/dp/1429661852)
- Explore: Gather information from observing radishes
- Explain: Gather information from radish seed packets
- Extend: Plant and taste radishes
- Evaluate: Write a poem about radishes



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Lesson Plan

Engage (5 min):

- Read "Carrots Grow Underground" by Mari Schuh.
- Ask students what part of the plant do you eat when you eat radishes (root).
- Ask students what other roots you eat (carrots, beets, turnips,

Explore (10 min):

- Distribute radishes and observation tools.
- Small group discussion What information can you gather about radishes?
 - Kindergarten Use your five senses to gather information and make inferences about your radishes.
 - o 1st Grade Use your five senses and your magnifying glass to gather information and make inferences about your radishes.
 - 2nd Grade Use your five senses, your magnifying glass, and a ruler to gather information and make inferences about your radishes.

Explain (5 min):

- Distribute radish seed packets and seed catalogs.
- Small group discussion What additional information can you gather about radishes?
 - o Kindergarten Look at the pictures. What additional information can you gather about radishes?
 - o 1st Grade Look at the pictures and listen to the words. What additional information can you gather about radishes?
 - o 2nd Grade Look at the pictures and read to the words. What are two adjectives used to describe this variety of radishes?

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Extend (10 min):

- Taste two or three different kinds of radishes.
- Create a bar graph based on taste test results.
- Evaluate the bar graph based on the taste test results.
 - Which type of radish was the class favorite?
 - Whish type of radish was the least favorite?
 - How many more/less students like (type 1) more than (type
 - How would the results change if (student) changed their vote to (type 1) instead of (type 2)?

Evaluate (10 min):

- Write a poem about radishes.
 - o Kindergarten Five Senses Poem
 - 1st Grade Acrostic Poem
 - 2nd Grade Haiku
- Illustrate poem with a scientific drawing of a radish.

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Rubrics

WK2	Appropriately describes look	/ 15
WK2	Appropriately describes feel	/ 15
WK2	Appropriately describes sound	/15
WK2	Appropriately describes smell	/ 15
WK2	Appropriately describes taste	/15
WK2	Appropriately and neatly illustrates	/ 25
	TOTAL	/100

W12	Appropriate descriptor (10 pts. each)	/70
W12	Correct spelling	/10
W12 Neatness		/10
W12 Appropriately and neatly illustrates		/10
	TOTAL	/100

W22	/60	
W22	Correct syllable distribution	/10
W22	Correct spelling	/10
W22 Neatness		/10
W22 Appropriately and neatly illustrates		/10
	TOTAL	/100

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Elementary School GA Standards 45 min

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Name:					

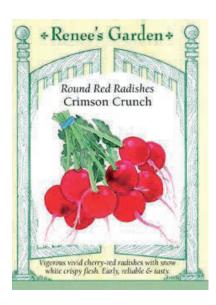
Touch	Taste	Sight	Smell	Hear
			3	

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Round Red Radishes

Crimson Crunch

Sow this quick growing, cool

START SEEDS OUTDOORS

In early spring as soon as

ground can be worked, sow radish seeds in well-worked,

fertile soil in full sun. Space

seeds I inch apart in wide rows 6 inches apart. Cover

1/2 inch deep. Keep soil evenly

moist and well weeded. If first

replant right away. Sow in late

sowing comes up unevenly,

summer for a fall crop. GROWING NOTES

season crop wherever you intend to plant heat lovers later. Radishes thrive and have crisp flesh and the best mild flavor given consistent moisture. Sow small amounts a week apart to mature in warm but not hot weather. Thin quick-growing seedlings early to 2 inches apart so

roots have room to size up. Protect radishes with floating row covers if marauding birds or flea beetles that chew holes in the leaves are a problem.

HARVEST AND USE

Harvest radishes when roots are the size of large marbles. If weather turns unexpectedly hot, pull, cut off tops, and store in the refrigerator for up to 3 weeks. Radishes will be spicier in hot weather and milder grown in cooler conditions. Combine sliced dill or parsley for a great salad. Make delicious openfaced sandwiches on whole grain bread spread with sweet butter and topped with sliced radishes.

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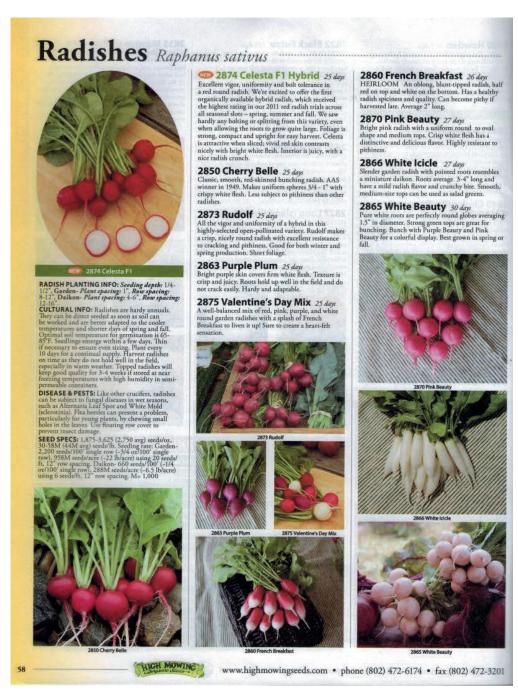
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By: _

Radishes look _____ Radishes feel Radishes sound ___ Radishes smell Radishes taste

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(5 syllables) (7 syllables) (5 syllables)

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