





Extension Nutrition Conne	CARI	SSONS MONTH'S THEME: ROTS	on Plan
TASTE AND LEAF		WAY FOR K-4 CLASSROOMS TO EX G MORE FRUITS AND VEGETABLES EVE	XPLORE, ERY DAY.
ACTIVITY	SUMMAR	RY	
ACTIVITY	GRADE LEVEL	CURRICULUM CONNECTION	TIME
#1: Carrot Observation	all	<b>Science:</b> classification, observation, structure of organisms	15 min.
#2: Make Carrot Celeriac Slaw or Carrot Salad	all	Math: measurement, graphing/tallying responses Science: observation, inquiry Literacy: reading comprehension	<b>30</b> min.
#3: Carrot Literature	all	Literacy: listening comprehension	15 min.
#4: Taste Test	all	Health: nutrition Science: observation, comparison Literacy: speaking, listening	15 min.
#5: Creating a Carrot	3-4	Social Studies: geography, past & present Literacy: reading comprehension	<b>15</b> min.
#6: Mapping the History of Carrots	3-4	Social Studies: history, geography Literacy: reading comprehension	15 min.
#7: Sprout a Carrot	all	<b>Science:</b> life cycles, change over time, observation, structure and function of organisms	15 min.
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Play Crunchy Carots: from farm to fork video to introduce carots. The YouTube video may be found at https://www.youtube.com/watch?v=XQPCn\_e8\_lio\_Following the clip, ask students the following series of true or false questions. Some answers may be found in the clip, so tell them to listen closely, when a statement is true, students will stand up. When they believe a statement is false, they will sit down. After all students have guessed, reveal the answer.

TRUE or FALSE?

1. Carrot seeds are really large.

Palse, Carrot seeds are really large.

Palse, Carrot seeds are liny little seeds and are planted really shallow in the soil to get the sunlight that they need to grow.

2. Carrots are always orange.

Palse, Carrots shave vitamins and minerals.

True, Carrots have vitamins and minerals that help keep our eyes and skin healthy.

4. The part of the carrot plant we eat is the stem.

Palse, Carrots are he root part of the plant.

5. Eating carrots can help you see in the dark.

Palse, This popular myth developed during World Wor II, the vitamin A in carrots can have a positive impact on your vision, just not in the dark.

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Palse facusing questions throughout the lesson:

• What is the part of the plant lhat we eat?

• What color is it usually? What other colors might it be?

• How does it help our body? (vitamin A, fiber, water content)

\*\*DESERVE CARROTS\*\*

MATCHIALS\*\*

• Variety of carrots (whole baby carrots, whole big carrots, orange, yellow, purple, red, and golden carrots or what is available at local markets)

• Outer board carrots (whole baby carrots, whole big carrots, orange, yellow, purple, red, and golden carrots or what is available at local markets)

• Outer board carrots (whole baby carrots, whole big carrots, o

(activity #1 continued)

(Activity #2 (as Students two or more carrots to observe and draw in their journals or on a piece of paper. Use the knife to create a cross section of the carrot so students may observe and draw the interior, which reveals the structure of the vascular bundle. Discuss the different parts of the root.

KINDERGARTEN: Draw pictures of carrots and color them in. Practice writing the letter "C." Ask children to come up with other words that start with "C," and record their ideas on a large piece of paper, hang in the classroom for the month.

GRADES 1-2: Title their drawing, draw carrots and practice writing the word carrot. Write the different colors carrots come in.

GRADES 3-4: Title their drawing, draw and label parts of their drawings.

Epidermis: outer protective layer
Root hairs: small roots that increase surface area for more absorption of water and nutrients from the soil

Vascular system: bundle in the middle of stems and roots containing the xylem and the phloem Xylem: carries food down into the roots

Phleon: carries water and nutrients up through the plant

See activity sheet #1 for labeled drawing of carrot.

ACTIVITY #2 (30 MINUTES)

ALL GRADES

MAKE ONE OF THE CARROT RECIPES

PREPARATION

Gather all malerials and ingredients and clear a workspace. Make sure all students wash their hands before the activity and wash down the workspace.

You decide how much to involve the students in preparation. Volunteers can prepare ingredients ahead of time. If involving the class, this activity may work best by splitting the students into groups and assigning roles. Alternatively, you could split the class into groups and give every group the required ingredients so each person can help complete the process from start for finish.

Alternatic greate a chart with the categories "liked it", "loved it", and "no, thank you" to record responses.

MATERIALS

Measuring spoons

Large bowl

Samall bow

(activity #2 centinued)

CARROT CELERIAC SLAW

INGREDIENTS

2 cups carrots, shredded (about 4 medium carrots)
1 cup celeriac, peeled and shredded
1/4 cup raisins
1/4 cup walnuts (check for nut allergies first, eliminate if necessary, or use sunflower seeds
2 Tablespoons canola oil
2 Tablespoons honey
1 small shallot, minced
1/2 teaspoon salt
1/4 teaspoon salt
1/4 teaspoon salt
1/2 teaspoon salt
2. Add carrots, celeriac, raisins, and walnuts or sunflower seeds (if using). Toss to combine.
3. Serve and enjoy!

Carrot Salad - Yields 4 servings - 1/2 cup each, Depending on how many students you have, you may want to double or triple the amounts in the recipe. You may even have your students help with this to practice some math.

This easy salad is like a cross between a slaw and a pickle, it makes a nice, simple snack or side dish, but it's also great in a sandwich or taco or on a burger. This is a versatile recipe substitute lemon juice and zest for the lime or use vinegar. Also, you can use parsley or cilantro instead of mint. Source: Chop Chop (www.chopchopmag.org/recipes)

CARROT SALAD
INGREDIENTS
3 large carrots, scrubbed or peeled juice of one lime and greated zest of half a lime
1 teaspoon honey
1/2 cup fresh mint leaves, chopped
1/3 cup roasted sunflower seeds (optional)
1/2 teaspoon salt

DIRECTIONS
1. Grate the carrots on the large holes of a box grater.
2. Sit in the lime juice and zest, honey, salt, mint, and sunflower seeds.
3. Serve right away or store, covered in the refrigerator, up to 3 days.

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ACTIVITY #3 (15 MINUTES)

ALL GRADES

CARROT LITERATURE

Here are some books with carrot connections:

The Giant Carrot, by Jan Peck - Grade Level - Preschool - 3rd Grade

This story is a variation of the folkidae "The Turnip." Papa Joe, Mama Bess, Brother Abel, and sweet Little Issabele all have plans for the carrot seed they plant. Papa wants juice, Mama hopes to plant her lips on a bowl of carrot stew. Abel is all set for carrot relish, but tiny Isabele desires carrot pudding, and it is her wondrous singing and dancing that cause the carrot to grow to enormous proportions. Consider following the story with a taste test of the carrot pudding recipe that's included at the end of the story.

Carrot Soup, by John Segal - Grade Level - Preschool - 3rd Grade

Here's a springtime book that's great for kids who love planning and doing projects. Rabbit, a very organized animal, loves carrot soup. He spends the long winter paging through carrot catalogs. Then he plows and plants, waters and weeds, and waits. Finally it's time to harvest, but when he goes to pick the carrots, they are all gone. Disappointed, Rabbit returns home to discover that his friends have organized a party and cooked his favortie soup. Consider following the story with a taste test of the carrot soup recipe that's included at the end of the book.

The Carrot Seed, by Ruth Krauss - Grade Level - Preschool - 3rd Grade

This book was first published in 1945 and tells a story about a little boy who plants a carrot seed, but everyone tells him it won't grow. But when you are very young, there are some things that you just know, and the little boy knows that not edy a carrot will come up. So he waters his seed, and pulls the weeds, and he waits... this book could be connected with an activity on growing carrots, either from seed or sprouting from the tops. (See Activity #7 Sprout a Carrot.)

See the Harvest Lesson Activities to Use Again and Again for information and ideas for taste tests.

ACTIVITY #4 (15 MINUTES)



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TASTE AND TELL (Grades K-1)

Gather children in circle time and offer tastes of raw and cooked carrots. Ask questions like: What do carrots taste like: How do the vegetables taste the same or different? Are raw carrots different than cooked carrots? Do the children like the taste?

Peccord the children's responses on a chart, and hang it in the classroom. To expand this activity, find carrots of different colors (orange, white, red, purple, yellow) and bring into the class. Develop a prediction chart. Ask children to predict how the different colored carrots will taste. Offer tastes of each color, and ask children to predict how the different colored carrots will taste. Offer tastes of each color, and ask children to describe how they are the same or different.

Source: Harvest of Healthy Kids is a partnership between Mt. Hood Community College Head Start and Early Head Start and the School of Community Health at Portland State University.

ACTIVITY #5 (15 MINUTES)

GRADES 3-4

CREATING A CARROT TIMELINE

MATERIALS & PREPARATION
Print out the Carrot History in the appendix. Keep a copy of the facts for yourself as a key and cut apart the rest. Mix them up and place in a bag, hat or basket. Note: You may want to glue each fact to an index card or laminate them to make them easier to shuffle and more durable.

PROCEDURE

Set up an area of the room for a timeline, Give one fact about the history of carrots to a group of 2 or 3 students. Have students read the fact to/with their group members. Then have them share out their fact to the whole class. Ask the class to figure out which order they believe is correct. Let students lead the discussion as much as possible, be prepared to facilitate, this may be a difficult task for some classes, both in terms of the academic skills and the social skills (working as a team.)

See activity sheet #5 for Carrot History.



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ACTIVITY #6 (15 MINUTES)

GRADES 3-4

MAPPING THE HISTORY OF CARROTS

MATERIALS

• A copy of Harvest Lessons map for each student
• One copy of the Carrots Mapping Directions to project, or one copy per student
• An atlas for each student or pair of students

PREPARATION

Gather materials. This activity pairs well with Activity #5: Creating a Carrot Timeline, so you could do that activity before or after this one.

PROCEDURE

Pass out copies of the Harvest Lessons map to each student. Pass out copies of the Carrots Mapping Directions. Instruct students to follow the directions to map the history of carrots. See activity sheet #6 for Carrot Mapping Directions and Worksheet.

ACTIVITY #7 (15 MINUTES)

ALL GRADES

SPROUT A CARROT (GROWING ROOTS)

MATERIALS

Carrots, bowls or saucers, soil or sand, water.

PREPARATION

Gather the materials.

PREPARATION

Gather the materials.

1. Water method

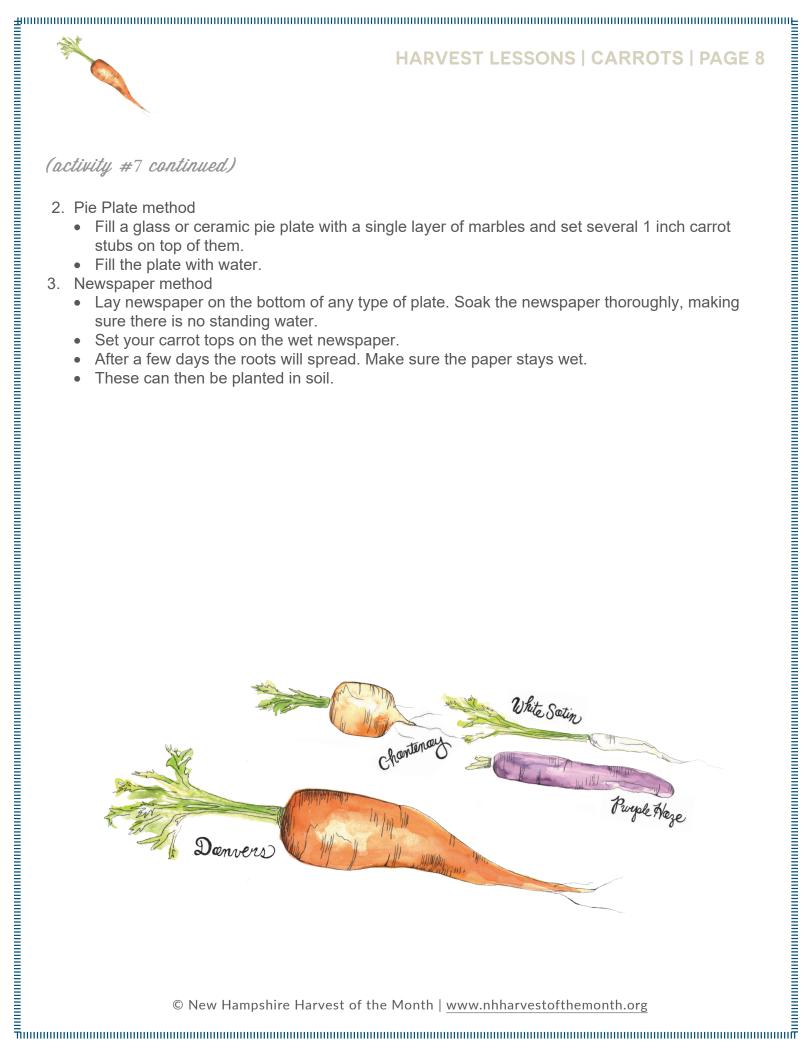
1. Water method

2. Stick a toothpick into either side of the carrot stump and balance it on top of a small glass. (Use an old glass because it may get stained.)

2. Stick a toothpick into either side of the carrot stump and balance it on top of a small glass. (Use an old glass because it may get stained.)

3. Place glass in a bright area, but not in direct sun.







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CLOSINGS

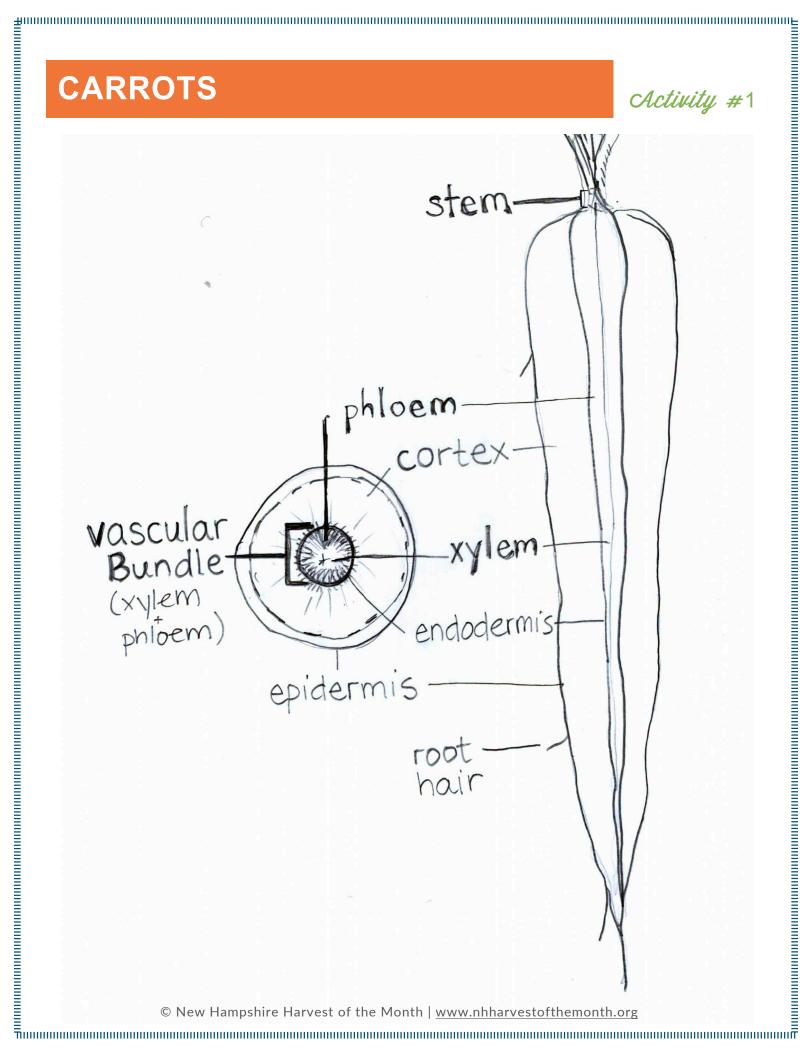
ACKNOWLEDGEMENTS
The following people contributed to developing this lesson plan:

• Caylin Gans

BACKGROUND INFORMATION
Great information about carrots can be found at these websites:

• http://www.carrotmuseum.co.uk/history.html (The History of Carrots)
• http://snaped.fns.usda.gov/nutrition-through-seasons/seasonal-produce/carrots
• http://www.rspca.org.uk/adviceandwelfare/pets/rabbit-diet/myths
• http://www.gardeningknowhow.com/special/children/grow-carrot-tops.htm
• http://rsbbit.org/suggested-vegetables-and-fruits-for-a-rabbit-diet/
• http://www.carrotmuseum.co.uk/history2.html (Carrots - From Medicine to Food)

APPENDIX SEE WORKSHEETS THAT FOLLOW





CARROTS

CREATING A CARROT TIMELINE - CARROT HISTORY

Carrots originated in the dry and hot lands of Iran and Afghanistan. They were brought to neighboring African, Arabian, and Asian lands to be sold and harvested. At this point in time, carrots grew in various colors including black, white, red and purple.

Carrots were extremely popular. We know this because carrots were found in the tombs of Pharaohs, and drawings of carrots and the harvesting process were found in many hieroglyphic paintings.

In Egypt, the most popular carrot was purple; it was used for medicinal purposes as well as eating. The medicinal use of the carrot spread from Egypt to Greece and Rome in the 1st millennial BC.

By the 13th century, carrots had spread from Persia to Asia and reached Japan. During this same time period, Europeans in France and Germany were also cultivating carrots.

In 1609, the first English settlers in Jamestown, Virginia began cultivating carrots.

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