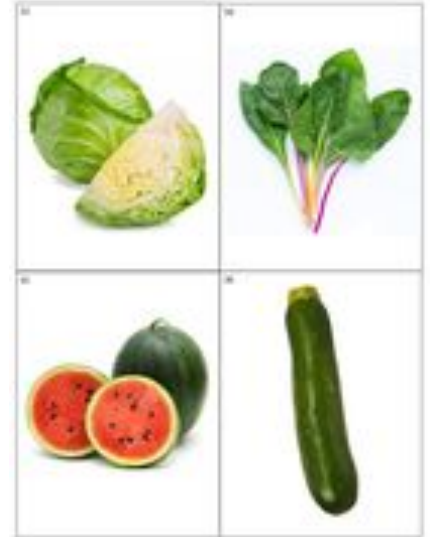


## Parts of a Plant Game

**OVERVIEW:** What parts of plants do we eat? All of them! In this fun card game, students learn whether their favorite fruits and vegetables are roots, stems, leaves, flowers, fruits or seeds. The game can be played by individuals in a small group or by teams of students. Do your students know that broccoli is a flower? Here's how they can learn!



**GRADES:** K-5 (*The degree of difficulty can be modified for all grade levels.*)

**OBJECTIVES:** The student will be able to:

- Look at pictures of fruits and vegetable and tell what parts of the plant they are.
- Describe the function of six plant parts: roots, stems, leaves, flowers, fruits, and seeds.

### **MATERIALS:**

*New Jersey Agriculture in the Classroom fruit and vegetable cards, printed and cut out. (See cards at the end of this lesson.) It is recommended that the pictures be glued onto cardboard or laminated before the game.*

Signs for each of the six plant parts: roots, stems, leaves, flowers, fruit, seeds.

For grades 2-5: a copy of the *Parts of a Plant I Eat* (below) worksheet for each student.

*Optional:* A large picture of a plant such as a tomato or cranberry that shows all of the six plant parts. This can be drawn on a large piece of plastic, vinyl tablecloth, or with chalk on pavement if the game is played outside.

**NOTE:** *Teacher should separate cards for teams of students in advance, so that each team receives a variety of different plant parts.*

### **PROCEDURE:**

Give each student a copy of the *Parts of a Plant I Eat* worksheet. Ask student to name each of the six parts of a plant. Discuss what eat part does for the plant:

- Roots soak up water and nutrients from the soil for the plant.
- Stems support the leaves and carry water and nutrients to the rest of the plant.
- Leaves make the plant's food by photosynthesis.
- Flowers attract pollinators to the plant.
- Fruit protects the seeds.
- Seeds produce a new plant.

Ask students to fill out the Parts of a Plant worksheet.

Spread the six plant part signs (or a large plant picture) in the middle of the room where each team can reach them easily. Divide students into teams of three or four. Distribute the fruit and vegetable cards equally to each team, making sure each team receives a variety of plant parts.

Explain to the students that their team should work together to identify what plant part each fruit and vegetable is. When they have decided upon the plant part, they should discuss what that part does for the plant. Then one team member should place the card by the correct plant part sign in the middle of the room.

If you are using a large drawing of a plant, the students should place the cards around the appropriate part of the plant.

When all the cards have been placed, all students should gather in a circle around the plant part signs. They should look carefully at where the cards have been placed. The teacher should point to each plant part one by one and ask students if they agree if all the cards have been placed there correctly. Before moving on to the next plant part, ask the students what the plant part does for the plant.

At the end of the game, ask students which plant part had the most cards. Which had the least?

*NOTE: For younger students, the teacher may want to use fewer cards or select only cards of the most familiar fruits and vegetables.*

### EVALUATION:

Each student lists the six plant parts, describes what it does for the plant, and names his/her favorite fruit or vegetable that is that plant part.

### EXTENSION:

Older students can teach the Parts of a Plant game to younger students.

Teach and sing the Parts of a Plant song (below).

Ask each team to name a fruit or vegetable that was not included in the plant part cards. What part of the plant is it?

### New Jersey Learning Standards

*Science:*    *K: LS1.C    1: LS1.A    2:LS2.A    3:LS1.B    4:LS1.A    5:LS2.A*

*Language Arts:*    *K:W.K.2    1:W.1.2,8    2:W.2,8    3:W.3, W.3.8*  
                                 *4:W.4.2, W.4.8    5: W.5.2, W.5.8*



NAME \_\_\_\_\_

## Parts of a Plant I Eat

*Beside each plant part, describe what that part does for the plant. Then write the name of your favorite fruit or vegetable that is that plant part. Explain why you like it.*

### ROOT

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### STEM

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### LEAVES

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### FLOWER

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### FRUIT

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### SEED

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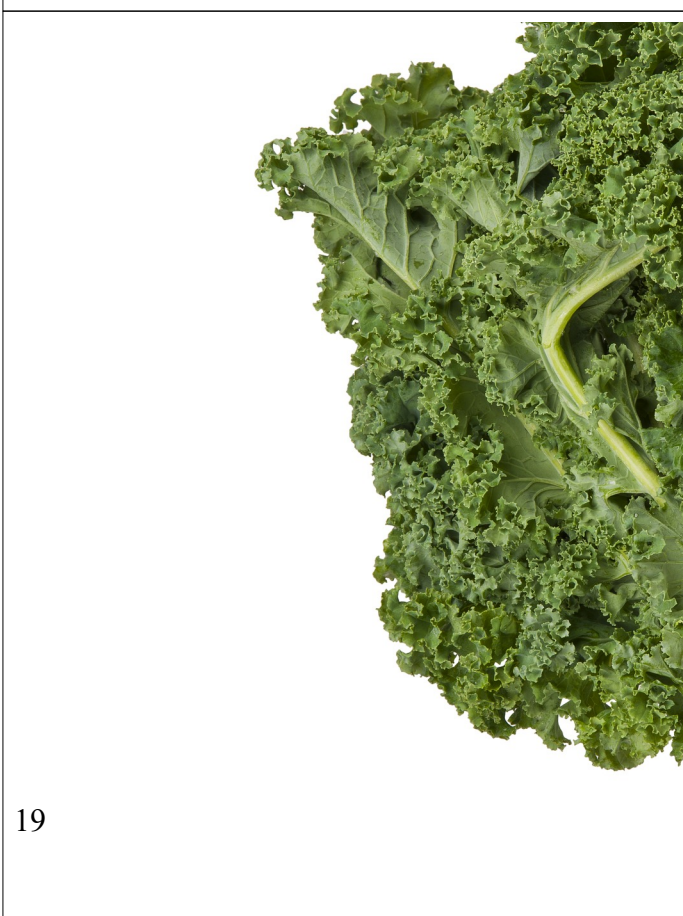
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# Parts of a Plant Game Answer Key

1) apple - fruit	19) kale - leaves
2) artichoke - flower	20) tomato - fruit
3) asparagus - stem	21) lettuce - leaves
4) avocado - fruit	22) orange - fruit
5) banana - fruit	23) peach - fruit
6) beans - seeds	24) pear - fruit
7) beet - root	25) peas - seeds
8) blueberries - fruit	26) pepper - fruit
9) celery - stem	27) pineapple - fruit
10) cherry - fruit	28) pumpkin - fruit and seeds
11) corn -seeds	29) radish - root
12) grapes - fruit	30) kiwi - fruit
13) bok choy - stem and leaves	31) spinach - leaves
14) cauliflower - flower	32) strawberry - fruit
15) carrots - root	33) cabbage - leaves
16) broccoli - stem and flower	34) Swiss chard - leaves
17) cucumber - fruit	35) watermelon - fruit
18) eggplant - fruit	36) zucchini - fruit

# Parts of a Plant Song

*Sing to the tune of the theme song of the Addam's Family T.V. show.*

Parts of a plant (Snap fingers or clap hands twice)

Parts of a plant (Snap fingers or clap hands twice)

Parts of a plant, parts of a plant, parts of a plant (Snap fingers or clap hands twice)

There's roots (touch toes)

And stems (put hands on waist)

And leaves (wave arms out to the side)

Flowers (Circle arms overhead)

Fruit (Circle arms out to the front)

And Seeds (Wiggle fingers in front)

You roll them all together (Roll hands)

And you've got the parts of a plant (Snap fingers or clap hands twice)

Parts of a plant (Snap fingers or clap hands twice)

Parts of a plant, parts of a plant, parts of a plant (Snap fingers or clap hands twice)

