



Connecticut's Summer Math Passport Family Learning Gardening



Students Leaving Grade K/Entering Grade 1

If you can plan a trip to a garden center, what are your two favorite plants? (If you can't make it to a garden center, you can research two favorite plants or may already have two favorites.)

- If you were going to buy 10 plants, and it could only be these two favorites, how many of each plant could you buy?
- Create a representation to show what you would purchase.

Students Leaving Grade 1/Entering Grade 2

Plants come in so many beautiful colors. Head to a local garden center or even your backyard, and go on a color hunt.

- How many plants can you find that have red flowers?
- How many plants can you find that have yellow flowers?
- Now you choose a different color. How many plants have the color you chose?
- Create a graph bar graph to show the three different colors of plant data that you found.
- Tell two things that you notice about the data.

Students Leaving Grade 2/Entering Grade 3

Garden centers sell many different types of plants. One of the jobs that the business needs to do is keep track of its inventory. Inventory is how much stuff it has left to sell.

- Choose a category such as a flower, herb, or vegetable that you can help collect some inventory data.
- Select four different types of plants that fit your category and find out how many of each are left.
- Create a graph to represent the data.
- Write three observations about your data.

(If you are unable to visit a garden center, collect some data about the plants in your own backyard.)

Students Leaving Grade 3/Entering Grade 4

Head to a local garden center. Select a plant that is your favorite that you would like to add to a garden. Plants usually come with tags that provide information about their growth and needs. (If you are unable to visit a garden center, you can research information about a plant.)

- How far apart must this be planted from another?
- If you were to buy six of these same plants, and you planted each within a row at the minimum recommended distance from each other, how long would the row be start to finish? How could you represent this?

Students Leaving Grade 4/Entering Grade 5

Imagine you are asked to help create a flower border for a path that is 20 feet long. Head to a local garden center and select one flower that is your favorite that you would like to use for the border. Plants usually come with tags that provide information about their growth and needs. (If you are unable to visit a garden center, you can research information about a plant.)

- How far apart must this flower be planted from another?
- How many of this type of flower will you need to buy to line the border of the path?
- How could you represent this?

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Family Learning Gardening, continued

Students Leaving Grade 5/Entering Grade 6

You are creating a vegetable garden at home. The dimensions of the garden are $3\frac{1}{2}$ yds. by 4 yds.

- What is the area of your garden?
- What vegetables could you get from your local garden center for your garden?
- How many of each vegetable and how far apart would you have to plant them?
- Plants usually come with tags that provide information about their growth and needs. Create a representation of how you would plant the garden. *(If you are unable to visit a garden center, you can research information about vegetable plants.)*

Students Leaving Grade 6/Entering Grade 7

You are creating a vegetable garden at home. The dimensions of the garden are $3\frac{1}{2}$ yds. by $4\frac{1}{3}$ yds.

- What is the area of your garden?
- What vegetables could you get from the garden center for your garden? *(If you are unable to visit a garden center, you can research information about vegetable plants.)*

Students Leaving Grade 7/Entering Grade 8

You are helping a neighbor replant his jade tree. He currently has the tree in a square pot that is 14 inches wide and 14 inches tall. He would like to put the tree in a round pot. The pot should have a diameter that is a couple of inches bigger than 14 inches so that the plant has room to grow. Head to the garden center to find a new pot for your neighbor. Your neighbor wonders how much more soil he will need for the new pot.

- What is the volume of each pot?
- What is the difference in the volume of the two pots?
- What is your recommendation to your neighbor on what he will need for soil? *(If you are unable to visit a garden center, you can look online.)*

