

Lesson 22: School Community Garden

- Let's plan a school garden.

Warm-up: Notice and Wonder: Garden

What do you notice? What do you wonder?



22.1: Produce

For each situation, draw a diagram and write an equation or expression.

1. A strawberry patch has 7 rows with 8 strawberry plants in each row.

a. How many strawberry plants are in the patch?



b. To grow strawberries in the best way, the rows should be 4 feet apart. Each plant in the row should be 2 feet apart. How long and wide is the strawberry patch?

c. You can harvest 12 strawberries per plant. How many strawberries will grow in each row?

2. With your partner, take turns explaining where you see the numbers in the expression or equation you wrote in your diagram.

22.2: Plan the Garden

1. Read the information about some plants you could grow in a garden. Then, circle 2 plants to grow in your part of the school garden.

a. strawberries

b. cantaloupe

c. zucchini

d. tomatoes

e. pinto beans

f. potatoes

2. Plan your garden. Both of your plants should harvest between 50–100 fruits or vegetables.

a. How many of each plant will you grow?

b. Predict how many fruits or vegetables you will harvest. Show or explain your reasoning.

3. Make a diagram that shows how the plants are arranged and how much space is needed.

Growing Requirements



strawberries

- Grow in patches
- Space rows: 4 feet apart
- Space plants: 2 feet apart
- Each plant produces 12 strawberries.



cantaloupes

- Grow on vines
- Space rows: 4 feet apart
- Space plants: 1 foot apart
- Each plant produces about 8 cantaloupes.



zucchini

- Grow on vines
- Space rows: 5 feet apart
- Space plants: 1 foot apart
- Each plant produces about 8 zucchini.



tomatoes

- Grow on vines
- Space rows: 4 feet apart
- Space plants: 2 feet apart
- Each plant produces about 20 tomatoes.



pinto beans

- Grow on bushes in pods
- Space rows: 2 feet apart
- Space plants: 1 foot apart
- Each plant produces 20–25 pods and each pod produces about 5 beans.



potatoes

- Grow in rows
- Space rows: 2–3 feet apart
- Space plants: 1 foot apart
- Each plant produces 5–10 potatoes.