Purpose

Plant a garden bed that contains all different edible plant parts. Use the garden bed to teach the following standards:

3.L.2.1, 3.L.2.2, 3.L.2.3 Understand how plants survive in their environments.

3.OA.1 Represent and solve problems involving multiplication and division.

3.NF.1 Understand fractions as numbers.

3.MD.2 Solve problems involving customary measurement.

3.MD.3 Represent and interpret scaled picture and bar graphs.

3.MD.5-7 Find the area of a rectangle with whole number side lengths.

RI.3.7 Use information gained from illustrations and the words in a text to demonstrate understanding of the text.

3.E.2 Understand entrepreneurship in a market economy.

Prior to Planting

- Students determine the area and perimeter of the bed, divide the bed into square feet, and grid.

- Determine the appropriate amount of fertilizer needed based on square footage.

- Use fractions to determine how many square feet of each crop will be planted.

- Use multiplication to determine how many seeds/transplants are needed.

- Read informational text to determine how to grow each crop and when to plant each.

Growing

- Create QR codes for each crop highlighting what plant part we eat.

- Measure, document, and graph the growth of each crop.

- Observe all stages of plant life cycle in peas.

Harvest

- Measure and weigh each crop.

- Using half of the harvest, conduct a tasting, identifying which plant part each crop represents. Create a frequency table of students' favorite crops. Have students create a scaled picture or bar graph of the data.

- Use the remaining harvest to have a mini farmers market and sell crops to parents or teachers.

Your Notes & Ideas

Edible Plant Parts Garden Bed

Roots	Stem	Leaves	Flower	Fruit	Seeds

4′ x 12′ garden bed

Carrots
16 per ft^2

Spinach
9 per ft^2

Snap Peas
8 (with trellis) per ft^2

Kohlrabi
4 per ft^2

Broccoli
1 per ft^2

Shelling Peas
8 (with trellis) per ft^2

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