

2 Unit 4: Developing Multiplication: Watch me Grow

Racebrook and Turkey Hill Schools Birdseye View

5 week unit

No unit assessment: Multiple points of data will be taken throughout.

Context ideas:

Bring in last unit as students calculate cost of plants or create farm from a budget.

Plan farm: equal numbers of plants in groups;

Organize fields: Cut pictures and paste on "land"

Put fruit in baskets to show items in groups

Shopping List

- *Separate little peat pots or cups with soil*
- *Marigolds*
- *Grow lights/terrarium*

A. Operations & Algebraic Thinking: Work with equal groups of objects to gain foundations for multiplication.

1 Day:

Introduce Farming Context.

- Show pictures of farms
- Garden architects
- Visually appealing
- How do farmers plan their garden?
- How are large farms organized with different crops?

1-2 days:

A1. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s

A2. Write an equation to express an even number as a sum of two equal addends.

- Basket of vegetables...are they odd or even?
- Count seeds, are they odd or even?
- Make 2 equal groups of seeds.
- How do we create an equation?
- Create equations with groups of equal addends.

5-6 days:

A3. Find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns array using addition.

A4. Make rectangular arrays

A5. Write an equation to express the total as a sum of equal addends.

B1. Partition a rectangle into rows and columns of same-size squares

B2. Count to find the total number squares in a partitioned rectangle.

- Give pictures of real world farms to show arrays.
- Show one farm that has an odd plant out. What is more visually appealing?
- Ask, what do you notice about the farms?

- Organize their farms either using pictures, a virtual app or real plants and a grow lights (works with Science standards)