



# Square Foot Garden

**Brief Description:** Have students investigate area and perimeter by creating a garden plot using 12x12 inch squares. This activity is also great for garden planning.

**Objectives:** Students will be able to explain the concepts of area and perimeter. Students will be able to measure an area by counting square units.

**Materials:** 12x12 inch scrapbooking squares, at least one per student

**Activity:**

1. Give each student a square and have them form a circle.
2. Have students lay their squares one by one to form a “garden plot.” Squares should not overlap and must touch the side of another square.
3. Have students discuss as a class the area and perimeter they formed.
4. Have students pick up their squares and create another “garden plot.”

**Discussion Questions:**

- Did area change or stay the same with our new shape?
- Did perimeter change or stay the same?
- How could we make the smallest perimeter?
- Is our shaper realistic for a garden?

**Optional Activity:**

-Have students research plants they would like to grow in their square. Give students pom-pom balls (to represent seeds) and have them “plant” their square with proper plant spacing.



| Square Foot Garden Standards |  |
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| MAFS.3.MD.3.5                | Recognize area as an attribute of plane figures and understand concepts of area measurement.<br>A square with side length 1 unit, called “a unit square,” is said to have “one square unit” of area, and can be used to measure area.<br>A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units. |
| MAFS.3.MD.3.6                | Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).  |
| MAFS.4.MD.1.3                | Apply the area and perimeter formulas for rectangles in real world and mathematical problems.  |