



## MATH IN THE SCHOOL GARDEN

### Webinar Resources

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#### [Graphing in the School Garden](#) (Georgia Dept. of Education)

This learning plan builds on knowledge of first grade by having students create a picture graph as a tool for representing data. Students will analyze pictures of plants based on a math problem. Students will answer an investigative question that can be answered by gathering, representing, and interpreting data.

#### [Measuring and Mapping the School Garden](#) (eat.think.grow)

This lesson is an opportunity for students to practice the skills of measurement and estimation using fractions and percentages.

#### [Garden Beds and Fractions](#) (Mathematics Hub)

In this lesson, students use a simulated garden bed to explore tenths. They explore fractions within simulated Asian gardening plots. They draw garden beds, allocate fractions to fruit plants, and combine fractions to understand tenths. Through creativity and discussion, they grasp the concept of fractions as parts of a whole and end with a fun Dice fraction game.

#### [Square Foot Gardening Project](#) (Blue Stem Design)

Square Foot Gardening is a popular method of organizing and planning a vegetable garden. Its core idea is that the garden is divided into square foot sections and that a certain number of each vegetable can be grown in each square foot. I find this method an easy way to plan and plant a garden with students. It allows them to easily visualize the garden, how much space each plant needs and how many plants can realistically fit into the garden.

#### [Math in the Garden Book](#) (KidsGardening)

This engaging curriculum uses a mathematical lens to take children on an education-filled journey in the garden. Its 36 standards-based activities hone math skills while promoting inquiry, language arts, and nutrition. Through funding from the National Science Foundation, Math in the Garden was developed to support mathematics and science standards and all of the lessons were extensively trial-tested by formal and informal educators and youth leaders nationwide.

- [Math in the Garden companion resources](#)

#### [Teacher's College Garden and Food Curricula](#) (Columbia University)

Guide students as they engage with critical topics, such as food systems, food choices, and personal health! These curricula address the interplay of biology, personal behavior, and many other factors in the U.S. food system. K-12 Lessons and materials provide the knowledge, skills, and resources necessary to effectively teach food and nutrition education.

**[NJ Ag Math Lessons](#)** (New Jersey Agriculture in the Classroom)

If you find it difficult to squeeze lessons about agriculture into your busy schedule, then try teaching math at the same time! There are so many ways that math can be added to garden activities at all grade levels! Below are ideas and lessons that link agriculture and the school garden to math. Each lesson is linked to New Jersey Learning Standards for preschool through fifth grade.