

IU class lesson plan

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Ag in the Classroom '07

### "Planting a Garden"

Standards: Math 2.3 scale measurement to interpret drawings

2.3.a determining area

2.1.11.A use operations

2.2.11.A develop and use computational concepts in problem-solving strategies

Materials: seed and nursery catalogs, graph paper, internet access

Objectives: 1. Construct a scale drawing of garden with components of student's choice, given specific guideline

2. Make informed choices of materials needed for chosen garden.

3. Calculate area needed for components of garden.

4. Calculate cost to construct and maintain garden until harvest or until end of season.

Procedures: 1. Discuss and show examples of gardens and area needed for construction of each plus sources of materials needed.

2. Students are given task of designing garden of their choice: may be flower, herb, vegetable, or any combination with the following specification: a. total area may not exceed 500 square feet, b. may not spend more than \$150 on seeds, seedlings, plants, or any other materials (must include shipping and taxes if applicable) c. must include at least 4 different types of plants.

3. Students draw a scale drawing of the garden they have designed. It must include a scale and key.

4. Students construct an itemized cost sheet for their garden and calculate total expense.

5. Students write a 3 paragraph essay of why they chose the specific items for their garden and their expected crop yield or floral displays by amount they expect and time they should see it.

Follow-up activities:

Plant classroom garden either outside on school grounds or as a container garden so students can take home for summer.