



Oglala Lakota College
 Agriculture Extension Department
 Piya Wiconi Road, PO Box 490
 Kyle, SD 57752-0490

Factsheet # 2016-08-002
 Updated 8/25/16
 Authors: Leslie Rae Henry

Your name(s): OLC Agriculture Extension Department & Pajuta Haka College Center
Date: 08/26/2016

**Use Math to Solve Problems and Communicate Planting of Fruit in a High Tunnel Greenhouse
 Lesson Plan Template**

Planning:

Lesson Topic/Theme: High Tunnel Fall Planting **Lesson Level:** 9-12(GED)

How did you arrive at the topic/theme? How is this topic/theme relevant to the students?

Requested by: Pajuta Haka College Center Director

Decision Making: Design of planting space with winter crops or fruit (as strawberries).

Real-Life Application:

Students will use math to solve problems and communicate location of plants in a high tunnel greenhouse.

How did you incorporate the components of the Use Math standard?

Components of the Standard	How will the lesson help students develop these knowledge, skills, and strategies?
Understand, interpret, and work with pictures, numbers, and symbolic information.	Students/extension clients will... <ul style="list-style-type: none"> Utilize available tools to design a strawberry patch in a high tunnel greenhouse (or plant cold season vegetable crops).
Apply knowledge of math concepts and procedures to figure out how to answer a question, solve a problem, make a prediction, or carry out a task that has a math dimension.	Students/extension clients will... <ul style="list-style-type: none"> Determine which cool season crops to plant other than strawberries within high tunnel greenhouse.
Define and select data to be used in solving the problem.	Students/extension clients will... <ul style="list-style-type: none"> Evaluate and determine how they can utilize math within the planting design.
Determine the degree of precision required by the situation.	Students/extension clients will... <ul style="list-style-type: none"> Adjust their design to the needs of location and caretakers (Pajuta Haka College Center)..
Solve problems using appropriate quantitative procedures and verify that the results are reasonable.	Students/extension clients will... <ul style="list-style-type: none"> Convert ruler measurements to human body parts, so they can utilize their body to measure spacing of plants.
Communicate results using a variety of mathematical representations, including graphs, charts, tables and algebraic	Students will... <ul style="list-style-type: none"> NA



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models.

Workshop Title: **High Tunnel Fall Planting**

Workshop

Learning Objective: Participants will be able to measure liner plant spacing with their body parts.

Life Long Learning/

Adult Ed. Standards: Thinking: Decision Making, Learning to Learn, & Service Learning

Math Standards:

Science Standards:

Supplies Needed: Garden tools: tiller, rake, shovel, ruler (or tape measure), water hose, strawberry plants, cold season vegetable seeds, drip line, attachments for drip line.

Lab Instructions: 1. Obtain all supplies above before workshop/lesson. (Or allow class participants to plan out supplies needed for activity.)

2. Organize them for the workshop activity.

3. High Tunnel Planting

For the entire activity:

a) Clean site to be planted

b) Prepare site for planting. Till site, lay out irrigation or have a plan on how to water plants.

c) Plan a design for planting area.

d) Plant strawberries (or seeds) according to trainer(s) instruction and your design plan.

e) Water plants (or seeds) well after planting.

f) Set up a schedule to water plants and maintain site after planting.

g) Harvest fruit or vegetables when mature.

Evaluation Method: Questioner related to the workshop will be filled out by participants. A lesson specific tool related to student learning outcomes addressed.



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High Tunnel Fall Planting workshop self-evaluation survey tool.

Demographic Information:

GED/OLC Student/Community Member
 (Circle one of the above)

Name: _____

Address: _____

Time Workshop Began: _____

Email: _____

Ended: _____

Date: _____

Location of Workshop: _____

Workshop Learning Outcomes: _____

Thank you for taking the time to fill out this evaluation form and returning it to the Agriculture Extension Program at Oglala Lakota College (address above). The information collected will be utilized by the department to gage community impact of the training and areas of needed improvement in training goals. Thank you for your valued input.

(Check or fill in all boxes below that apply to YOU.)

Male	Female	Age	OLC GED Student	OLC Student	OLC Staff	OLC Faculty	Community Member	Ag Producer	Other	Highest Education Level	Youth (17 or younger)

If a current OLC student what degree are you pursuing? _____

How many OLC educational semesters have you completed? _____

Please comment on the questions below.

1. What inspired you to attend this training workshop/meeting/seminar/activity?
2. How did you find out about the training workshop/meeting/seminar/activity?
3. What do you feel is the most important thing you learned?
4. How would you rate the information provided by the trainer(s) on a 1 to 5 point scale?
 1-poor; 2-needs improvement; 3-average; 4-above average; or 5-excellent (no improvement needed)
5. Please list 1 or 2 additional things that you learned at this training workshop?
6. Please share your ideas on how this workshop/training could be improved.
7. Other comments or ideas you would like to share with OLC Agriculture Extension staff.