Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Ag Sudoku

**Purpose**

The purpose of this exercise is to apply critical thinking skills to a science concept with 4 or more parts. In this lab, students will memorize the four growth requirements for plants: water, air, soil, and sunlight.[[1]](#endnote-1)

**Procedure:**

 **Materials**

1. Blank Sudoku grid

**Sequence of Steps**

1. It is game time! The goal of Ag Sudoku is to use one of the words (or numbers) in each row and each column once. The challenge is to make sure that no item appears more than once in any row or column.

![C:\Users\Angela\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\DRP2N1IJ\MCj04242300000[1].wmf]()2. Your task is to complete your Ag Sudoku board using the four plant growth requirements. When you are done, have your instructor check your work, then illustrate each box.

**![C:\Users\Angela\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\DRP2N1IJ\MCj04242300000[1].wmf]()**

**Sudoku Grid**

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| --- | --- | --- | --- |
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**Notes: From one teacher to another –**

*I used this for the growing needs of plants: Water, Air, Soil and Sunlight. Making the board is easy and the students used a pencil to fill in the answers then drew in the pictures once they had the sequences correct. I was able to easily check for each requirement in each column and row and corner box. When I pointed out where a mistake occurred it helped them understand. For example, “This plant has too much water and no sunlight,” Or “This one has no air and too much soil.” They were able to visually see the error and correct the mistake. I am planning to do something similar with the 5 parts of the FFA emblem and possibly the photosynthesis process.*

1. Vannest, Krista (2008).Ag Sudoku. *Pitman High School Agriculture Department*. [↑](#endnote-ref-1)