You will choose one of the items below to complete as your final assignment for our Ag 1 class. You will work alone and be responsible for creating all your original work. You are able to use our notes, any books or texts books, and *reliable* internet sources to gather information.

All projects are due complete and in their entirety on Thursday or Friday June 6 or 7 at the end of class.

1. Production Facility

Create a complete outline of a production facility for ornamental, fruit, or vegetable crops. This can be completed as a presentation you share with me OR in the form of a 3-D model.All of the following must be included:

* State what type of crop will be grown
* Type and Size of greenhouse
* Type and Size tables/benches
* Floor types used
* Sprinkler type and pattern
* Potting area
* Storage
* Pest control measures
* Heating and AC source
* Be sure to research specific requirements needed for the species you are growing (hint: each species has their own special needs!)
* If it is a presentation there MUST be a picture of each element listed above.
* Include a list of ALL sources used.

1. Production Calendar

Choose a type of production operation (plugs, nursery crops, fruit/vegetable crops, ornamental flowers) and research how a producer would run their greenhouse for an entire year. Requirements:

* Full 365 day Calendar can over Reproduction, Health, and/or Nutrition requirements (you choose!)
* The production calendar must be specific for a type of crop (see above).
* The calendar must be detailed enough a producer could follow it completely and have a task to complete for each day. Tasks can overlap over days and can include observation, sales, and/or cleaning!
* Include a list of ALL sources used.

1. **Research Paper**

Write a research paper over a specific category or species of plant listed below. Requirements:

* Must be at least 5 pages double spaced 12 point Times New Roman font.
* Topics include: wine grapes, poinsettias, Christmas trees, Easter lilies, roses for valentine’s day, covering history, origin, genetics, uses, common production problems, current use status in production, advantages, and disadvantages.
* Must include MLA or APA citations in the text along with a bibliography including include a cover page and page numbers.

1. Write a Test

Create a final exam for our entire semester class. Requirements:

* Create a test bank of at least 75 questions
* Must include all the units we have covered this years – classification/types of plants (life cycles, angiosperms v. gymnosperms, monocots v. dicots), weeds, nomenclature, scientific names, propagation, reproduction, agricultural chemicals
* ALL questions MUST be original
* You MUST include each of the following questions types: multiple choice, true/false, matching, fill in the blank, and short answer.
* Once all questions have been complete, make a version of 20 of the 75 total questions. Then, get at least two of your classmates to take the test before the due date. You must grade the tests and include them when you turn in your project.

1. **SAE project Display**

Create a display board of a horticulture SAE project.

Requirements:

* Must include SAE pictures printed in color and mounted.
* Must all be mounted on a poster board.
* Must have each of the following elements outlined in at least 5 sentences for each topic:
  + Goals you can have for your project along with how you can reach them
  + Why you chose this project
  + What could you do for this project
  + All materials you may use along with their cost (can be in list form)
  + Chart showing the daily activities you can work on along with how many hours
  + What you will do differently in the future
  + Why you will or will not do this project again as an SAE if you were required