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Name



Midterm Study Guide

Ag Ed I

Unit 1

1. What percent of the average U.S. workers pay goes for food? 1.4 percent

Define:

2. **Agriscience** is the application of scientific principles and new technologies to agriculture.

3. **Agriculture** is defined as the activities involved with the production of plants & animals related supplies, services, mechanics, produce, processing & marketing.

4. **Agribusiness** refers to commercial firms that have developed with or stemmed out of agriculture.

Unit 2

5. How do humans, animals, insects and chemicals change our living environments?

Humans: by building roads & buildings and taking care of it.

Animals: by helping us make money by eating them & they help us produce products such as milk

Insects: by pollinating our plants

Chemicals: by disinfecting bad germs & killing the bugs that hurt our plants/crops.

6. Describe 10 events that that occurred over the following years.

1700 Chemical sprays & oil spills
way of breeding is improving

1800 inventions brought revolutionary changes in agriculture
in U.S. & Europe.

1900 iron spurred inventions & feed mills

1920 First National FFA convention held in Kansas City.

1940 best specimens for breeding corn

1960 Automatic milkers

1980 biodiesel

2000-2010 7 billion people live on earth
new insecticides to kill unwanted bugs.

7. Fill in the blanks to the creed

I believe in the future of agriculture with a faith born not of words but of deeds-

achievements won by the present and past generations of agriculturalists; in the

promise of better days through better ways, even as the better things we now enjoy have come to

us through the struggles of former years.

I believe that to live and work on a good farm or to be engaged in other agricultural pursuits is pleasant as well as challenging; for I know the Joy and discomforts of agricultural life and hold an inborn fondness for those associations which, even in hours of discouragement I can not deny.

I believe in leadership from ourselves and respect from others. I believe in my own ability to work efficiently and think clearly with such knowledge and skill as I can secure and in the ability of progressive agriculture to serve our own and the public interest in producing and marketing the product of our toil.

I believe in less dependence on begging and more power in bargaining; in the life abundant and enough honest wealth to help make it so-for others as well as myself; in less need for charity and more of it when needed; in being happy myself and playing square with those whose happiness depends upon me.

I believe that American agriculture can and will hold true to the best traditions of our national life and that I can exert an influence in my home and community which will stand solid for my part in that inspiring task.

Who wrote the FFA Creed: J.C.

What year was the creed adopted: 1916

Unit 4:

8. Write an agricultural career for each 20 letters of the alphabet. Extra credit will be rewarded for having a career for every letter of the alphabet

Animal scientists

Biotechnology

crop scientists

Dairy industry

Extension agent

Forestry

Geneticist

Horse trainer

Industrial engineer

Jet engine repairman

Kidney dialysis tech.

Landscaper

Mechanical worker

Nuclear engineer

Operations of farming

Pest control

Quail breeder

Ranching

Soil crop scientist

Technician

Urban planner

Veterinarian

Wine maker
X-ray equipment inspector
Yardkeeper
Zoologists

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Unit 5:

9. What do the letters SAE stand for? Supervised agricultural Experience Program
10. Define SAE: In Agriscience, the method used for students to obtain real-world experience.
11. What is the purpose of SAEP so it can help student to no if they haven't to experience for real-life what it would be like.
12. Define the following SAE programs:

Entrepreneurship SAE refers to supervised activities conducted by students as owners managers for profit.

Placement SAE programs place the students with an employer in a productive unit such as a farm.

Agriscience Internship may be paid or unpaid work experience that allows a student to work in an industry.

13. What steps must you take to select and implement your SAEP

5 You must be supervised, for managers for profit, on a farm or in an industry with or without pay. or you can explore a variety of subject of agriscience.

Agriscience Project: (Essay 10 Point)

Tell me everything you can about your agriscience project. What it is, how much you have completed and how much time you have spent with it. Provide any other information that will explain the work you have put into your agriscience project. When is the agriscience project due?

7 I am painting a John Deere G20. We sanded it down so when we paint it will be very smooth & we put some old newspaper on it so when we paint it it doesn't get all over where we don't want it. That took maybe 6-10 hrs. Nov. 19th.



Midterm

Ag Edu II

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Unit 1

1. Define :

Pomology science of growing, harvesting, handling, storing, processing and marketing tree fruits

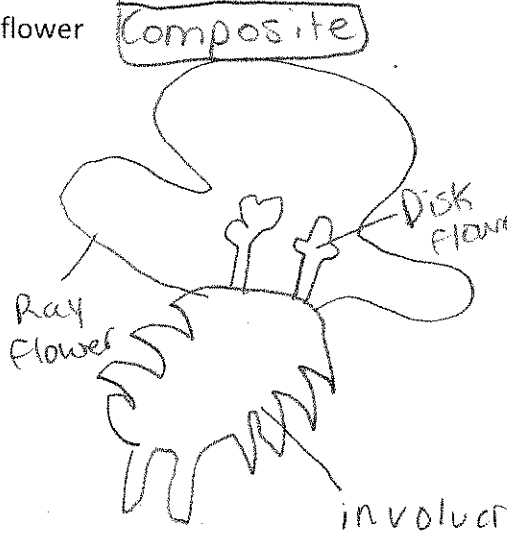
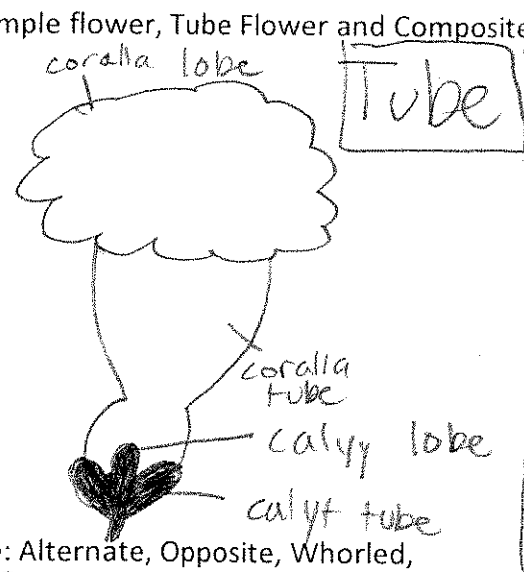
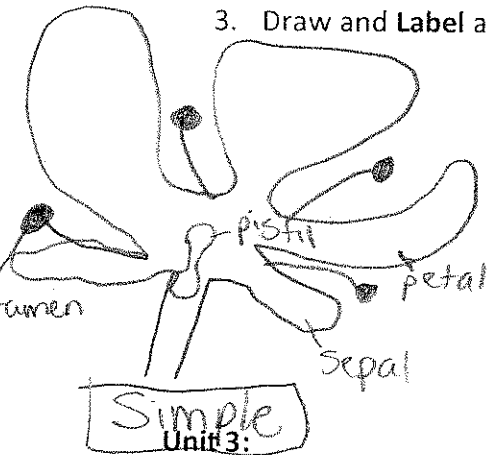
Olericulture: science of growing, harvesting, storing, processing and marketing vegetables

Floriculture: science of growing, harvesting, storing, design, and marketing of flowers

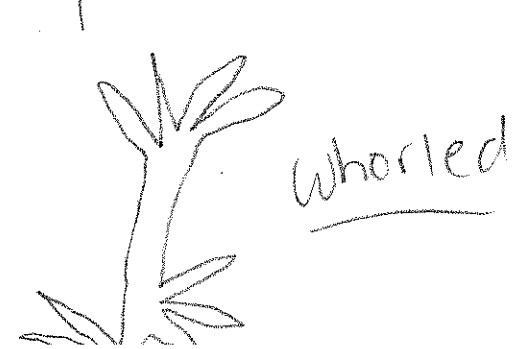
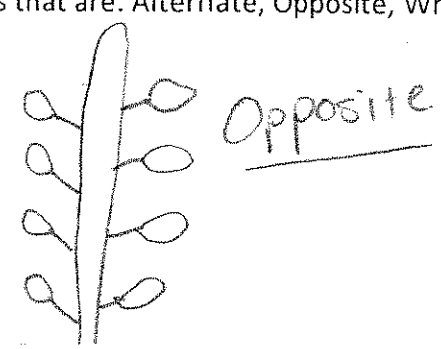
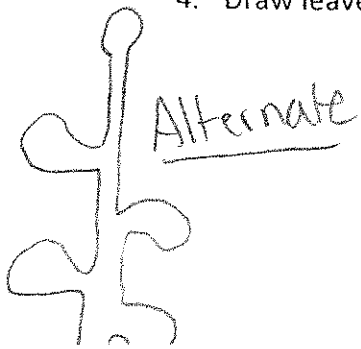
2. What are the most important elements of a resume? headings, educational work, use normal words, career objective, date available, Research

Unit 2:

3. Draw and Label a Simple flower, Tube Flower and Composite flower



4. Draw leaves that are: Alternate, Opposite, Whorled,



5: Define

Transpiration: evaporation of water through plant leaves & stems

Xylem: transports water & minerals in stem

Phloem: transports manufactured food through stem

6. Describe three differences between Photosynthesis and respiration.

Photosynthesis

- manufactured food
- sun energy
- CO₂ used
- Oxygen given off
- + 2_e Requires light

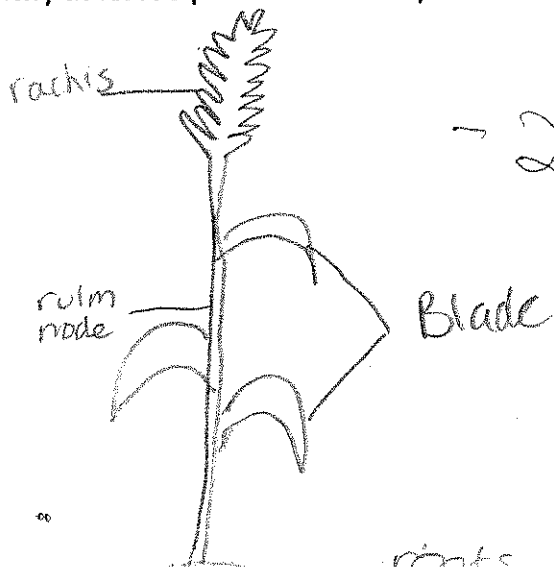
Respiration

- Food consumed
- energy released
- Oxygen used
- CO₂ given off
- Goes day & night

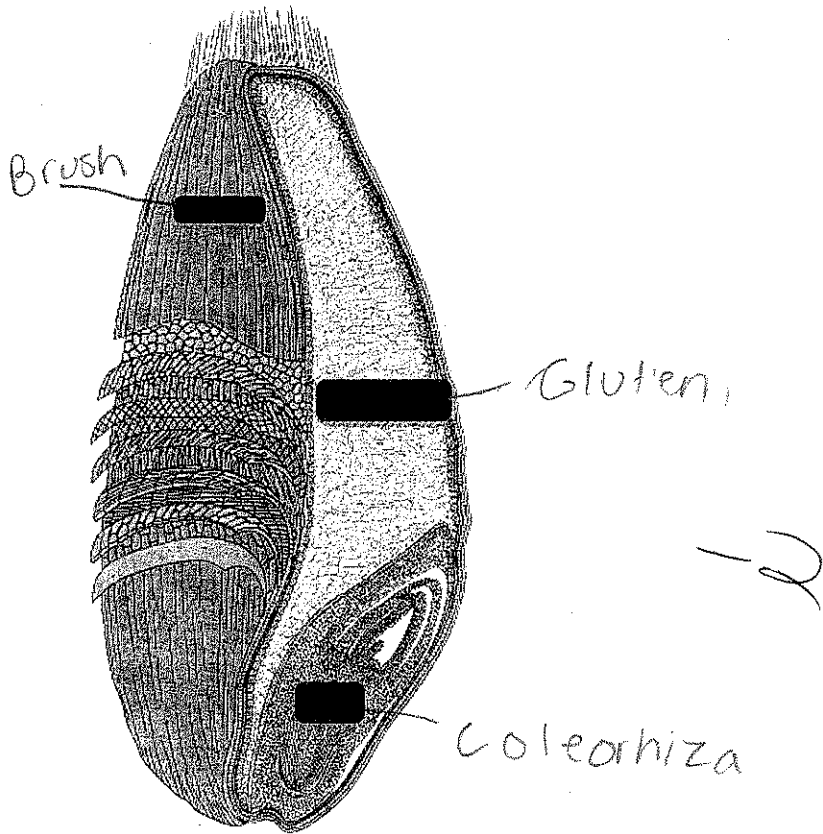
7. Describe and draw 4 differences between monocots and dicot

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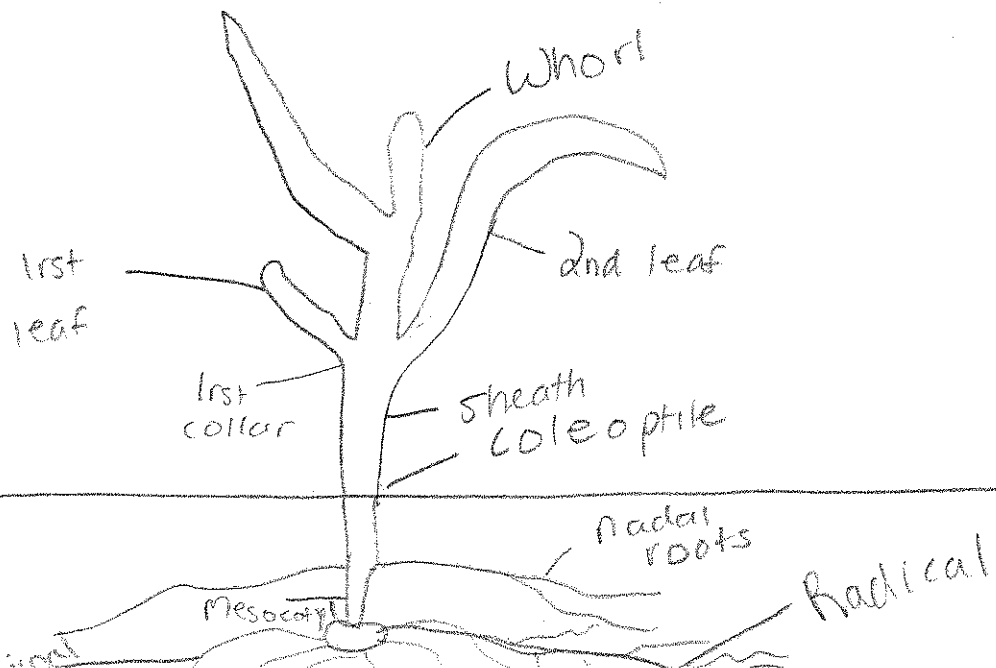
Identify at least 5 parts of a wheat plant



Label the three parts of this Wheat Seed Where the black boxes are



Draw and label 10 parts of the corn plant.



List 3 vegetative, 4 reproductive and 2 maturity stages of a soybean plant.

VE - emergence

VI - First unrolled trifoliolate leaf

VII - Second unrolled trifoliolate leaf

R1 - Beginning Bloom, plants have at least 1 open flower

R2 - Full bloom, plants have open flowers one at a time

R3 - Beginning pod, full developed leaf

R4 - Full pod - main stem with fully developed leaf

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Essay Questions

Why is it important to understand the vegetative, and reproductive stages of corn soybeans and other crops? (10 Points)

It's very important to know for the plant. If there is something defective, you can fix it if you figure out what is wrong. If you know all these stages, you should figure it out.

We have discussed what happens after the first 18 to 21 days after emergence for corn and soybeans but why is it important to know how these crops grow after they emerge? (10 Points)

It's important to know how it grows so you know when to spray or spread manure on the crop. You might kill the plant if you don't know when the time is right to do what you are doing to the plant.