

HORTICULTURE 1 BELL WORK

ON A SINGLE SHEET OF PAPER WRITE DOWN:

1. THE DAY
2. TODAY'S DATE
3. THE QUESTION
4. THE ANSWER

	Question	Answer
1	If a red house is made from red bricks, a blue house is made from blue bricks, a pink house is made from pink bricks, and a black house is made from black bricks, what is a greenhouse made of?	
2	Go to AgExplorer.com and complete the Career Finder.	
3	Video journaling – Watch a short video clip, reflect in writing and share out. (https://www.youtube.com/watch?v=sc4HxPxNrZ0)	
4	Video journaling – Watch a short video clip, reflect in writing and share out. (https://www.youtube.com/watch?v=2pXuAw1bSQo)	
5	Video journaling – Watch a short video clip, reflect in writing and share out. (https://www.youtube.com/watch?v=6xINyWPpB8)	
6	How many people does one U.S. farm feed? a. 56 people b. 165 people c. 202 people d. 233 people	
7	Which state has the most farms? a. Missouri b. Iowa c. Oklahoma d. Texas	
8	True or False — The majority of farms in the U.S. are owned by corporations. Explain your answer in one to two sentences.	
9	Approximately how much of the U.S. is covered in trees? a. 1/8 b. 1/4 c. 1/3 d. 2/3	
10	Which of the following is a term used in the forestry industry to describe the segment that works with maintenance and cultivation of trees? a. Vermiculture b. Silviculture c. Parasitology d. Viticulture	
11	Develop a list of everyday items that are produced from animal and plant byproducts. You have two minutes.	
12	Biodiesel is a fuel source created from which common agricultural commodity? a. Corn b. Soybeans c. Wheat d. Sorghum	

13	<p>In what year did John Deere begin manufacturing the steel plow?</p> <ol style="list-style-type: none"> 1791 1802 1837 1868 	
14	<p>Identify five careers you could have in the Plant Systems Career Focus Area.</p>	
15	<p>Which U.S. President (pictured here) was known as a conservationist for his work with the National Parks system?</p> <ol style="list-style-type: none"> George Washington Abraham Lincoln John F. Kennedy Teddy Roosevelt 	
16	<p>Unscramble the basic plant terminology:</p> <p>wrelfo _____</p> <p>emts _____</p> <p>afle _____</p> <p>ootr _____</p> <p>rthultroeic _____</p>	
17	<p>Identify five colleges/universities that offer agriculture-related degrees.</p>	
18	<p>Which of the following is not a grain?</p> <ol style="list-style-type: none"> Corn Soybeans Wheat Sorghum 	
19	<p>What career area is the largest employer in the world?</p> <ol style="list-style-type: none"> Medicine Manufacturing Education Agriculture 	
20	<p>Pictured below, known for his research with alternative agricultural crops (e.g., sweet potatoes, soybeans, peanuts), this scientist persevered and made a lasting impact on the agriculture industry.</p> <ol style="list-style-type: none"> Langston Hughes Martin Luther King Jr. Booker T. Washington George Washington Carver 	
21	<p>Cotton is an important commodity to American agriculture. What scientist (pictured below) is responsible for developing the cotton gin to increase the ability to process cotton?</p>  <ol style="list-style-type: none"> Eli Whitney Thomas Jefferson Norman Borlaug John Deere 	
22	<p>What type of tree can you carry in your hand?</p>	

23	What goes around and around the wood but never goes into the wood?	
24	You throw away the outside and cook the inside, then eat the outside and throw away the inside. What is it?	
25	Draw a picture of what the word <i>agriculture</i> means to you. You have five minutes to complete the drawing.	
26	 <p>Write down five words that come to mind when you look at this picture.</p>	
27	 <p>Write down five words that come to mind when you look at this picture.</p>	
28	<p>What does USDA stand for?</p> <ol style="list-style-type: none"> Unified States Department of Agriculture United States Department of Aquaculture United States Department of Agriculture Unknown Status for Domestic Agriculture 	
29	<p>Using one to two sentences, explain the purpose and labeling requirements for this seal.</p> 	
30	<p>The country that is the leading exporter of cut flowers to the United States floral industry is:</p> <ol style="list-style-type: none"> Holland Ecuador Mexico Columbia 	
31	<p>Botanical names are written in</p> <ol style="list-style-type: none"> English. Latin. Greek. German. 	

32 _____ is the single most important element to keep flowers fresh after delivery from a supplier.

- Air/ventilation
- Water
- Light
- Cool temperatures

33 One acre contains how many square feet?

- 34,650
- 43,560
- 43,600
- 36,350

34 The study of insects and their relationship with the forest is called _____.

- Dendrology
- Forest pathology
- Forest hydrology
- Forest entomology

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Farm Resource Regions

- Basin and Range:**
 - Largest share of nonfamily farms, smallest share of U.S. cropland
 - 4% of farms, 4% of value of production, 4% of cropland
 - Cattle, wheat, and sorghum farms.
- Fruitful Rim:**
 - Largest share of large and very large family farms and nonfamily farms
 - 10% of farms, 22% of production value, 2% of cropland
 - Fruit, vegetable, nursery, and cotton farms.
- Prairie Gateway:**
 - Second in wheat, oat, barley, rice, and cotton production
 - 13% of farms, 2% of production value, 17% of cropland
 - Cattle, wheat, sorghum, cotton, and rice farms.
- Northern Great Plains:**
 - Largest farms and smallest population
 - 5% of farms, 6% of production value, 17% of cropland
 - Wheat, cattle, sheep farms.
- Heartland:**
 - Most farms (22%), highest value of production (23%), and most cropland (27%)
 - Cash grain and cattle farms.
- Mississippi Portal:**
 - Higher proportions of both small and larger farms than elsewhere
 - 5% of farms, 4% of value, 5% of cropland
 - Cotton, rice, poultry, and hog farms.
- Northern Crescent:**
 - Most populated region
 - 15% of farms, 15% of value of production, 6% of cropland
 - Dairy, general crop, and cash grain farms.
- Eastern Uplands:**
 - Most small farms of any region
 - 15% of farms, 5% of production value, and 5% of cropland
 - Pasture, cattle, tobacco, and poultry farms.
- Southern Seaboard:**
 - Mix of small and larger farms
 - 11% of farms, 9% of production value, 4% of cropland
 - Pasture, cattle, general field crop, and poultry farms.

(Image can be found at https://www.ers.usda.gov/webdocs/publications/42298/32489_aib-760_002.pdf?v=42487.)

What region do we live in, and what are some of our greatest commodities according to the map from the USDA?

36 Utilizing the State Agricultural Facts map (https://www.agclassroom.org/teacher/ag_facts.cfm), identify and write down five interesting facts that you did not know about your state.

37 Write a Tweet about how agriculture impacted you this weekend.

38 Watch the video available at <https://youtu.be/qUtdRHUf6qw>, and respond to the following questions:

- What role does Monsanto play in the agriculture industry?
- How does science help Monsanto find solutions for feeding the growing population?

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- What role does RFDTV: Rural America’s Most Important Network play in communicating agriculture?
- What career area would you be involved in if you worked for RFDTV?



40 Watch the video available at <https://youtu.be/XVbOOMCjktA>, and respond to the following questions:

- Why is growing plants in space important?
- Why is figuring out how to grow plants in space challenging?

41	Watch the video available at https://youtu.be/FxMHI5Gr2Yg , and respond to the following question: 1. What are scientists doing to help feed a growing population?	
42	What relationship exists between science and agriculture? Give two examples to illustrate your response.	
43	What is the purpose of a literature review in agriscience research?	
44	What is the purpose of the materials and methods section in an agriscience report/research study?	
45	What is a hypothesis? Why is a hypothesis created when completing agricultural research	
46	What is the role/purpose of an abstract when writing an agriscience research study?	
47	In which career development event (CDE) do participants often create a floral arrangement? a. Nursery/landscape b. Horticulture c. Floriculture d. Forestry	
48	Find an impactful member of the agricultural community from history. Create a Tweet about the impact that person has had in the agriculture industry.	
49	Read the following article and respond with six emojis that represent your thoughts/feelings about the material: https://newsela.com/read/elem-san-francisco-hotel-rooftop-bees/id/41820 .	
50	Read the article "Fish get pooped living in polluted water," https://www.sciencenewsforstudents.org/article/fish-get-pooped-living-polluted-water . 1. Create a numbered lab procedure to outline the research study that was performed in this article. 2. What implications will this research have for the future of our natural resource systems?	
51	Read the article "New 'tattoo' could lead to drought-tolerant crops," https://www.sciencenewsforstudents.org/article/new-tattoo-could-lead-drought-tolerant-crops . 1. Using three to five sentences, describe the impact this technology could have on addressing the growing food crisis in the world.	
52	Read the article "Robots will control everything you eat," https://www.sciencenewsforstudents.org/article/robots-will-control-everything-you-eat . 1. List three facts and three opinions you have regarding the utilization of robots in agriculture.	
53	Write a two-minute elevator speech about what agriculture is/means. This elevator speech should be written for a student at the elementary level that has never taken an agriculture class.	

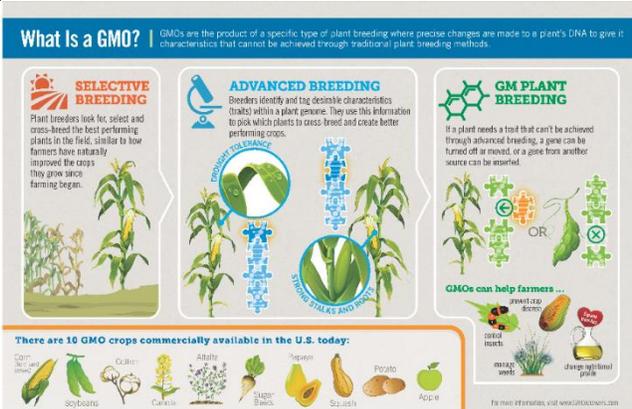
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(Image can be found at [http://www.fao.org/resources/infographics/infographics-details/en/c/1107110/.](http://www.fao.org/resources/infographics/infographics-details/en/c/1107110/))

From the infographic, select one of the five benefits of school gardens, and explain, using two to five sentences, why this benefit would be the greatest for YOUR school and program.

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(Image can be found at <https://qmoanswers.com/qmo-basics.>)

Use the infographic "What is a GMO" to explain what a GMO is. Imagine you are writing this explanation to a friend; use two to five sentences.

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This scientist not only was awarded the Nobel Peace Prize for his work in addressing hunger globally, but he also developed the World Food Prize to recognize those individuals making an impact in the world of agriculture.



- a. George Washington Carver
- b. John Deere
- c. Phillip Nelson
- d. Dr. Norman Borlaug

57	Using the World Food Prize Laureates page, find a laureate of interest to you and write a two to three sentence blog post about their accomplishments and agricultural impact. https://www.worldfoodprize.org/index.cfm?nodeID=90971&audienceID=1	
58	<p>Using two to three sentences, explain why and how you should advocate for hunger.</p>  <p>(Image can be found at http://alliancetoendhunger.org/aeh-playbook/.)</p>	
59	<p>Go to the Feeding America "Hunger is Closer than You Think" website (http://www.feedingamerica.org/hunger-in-america/) and select your state. Draw a picture that accurately represents what your state looks like regarding hunger.</p> 	
60	<p>How many U.S. states grow wheat?</p> <ol style="list-style-type: none"> 22 32 42 52 	
61	<p>Every state in U.S. produces honey. Which state leads in honey production?</p> <ol style="list-style-type: none"> California Florida Montana North Dakota 	
62	<p>New crop protection products go through many steps before being approved for use in the industry. Approximately how long does the process from concept development to approval take?</p> <ol style="list-style-type: none"> 2 years 7 years 11 years 13 years 	
63	<p>What country consumes the most coffee in the world?</p> <ol style="list-style-type: none"> Brazil Columbia England United States 	
64	<p>Which state is the leader in total corn production?</p> <ol style="list-style-type: none"> Nebraska Iowa Illinois Minnesota 	

65	<p>Which country consumes the most corn?</p> <ol style="list-style-type: none"> China United States European Union Brazil 	
66	<p>Which of the following grain commodities also goes by the name "milo"?</p> <ol style="list-style-type: none"> Corn Soybean Alfalfa Sorghum 	
67	<p>Ethanol is a fuel made from what grain commodity?</p> <ol style="list-style-type: none"> Corn Soybeans Wheat Coffee 	
68	<p>Identify the following plant:</p>  <ol style="list-style-type: none"> African violet Dumbcane Dogwood Snake plant 	
69	<p>Identify the following plant:</p>  <ol style="list-style-type: none"> African violet Dumbcane Aloe plant Snake plant 	
70	<p>Identify the following tool:</p>  <ol style="list-style-type: none"> Propagation mat Shade fabric Polyethylene film Peat moss 	
71	<p>Identify the following tool:</p>	



- a. Peat moss
- b. PVC pipe cutter
- c. Anvil blade pruners
- d. Bypass pruners

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(Image can be found at <https://www.ffanewhorizons.org/2017/08/28/which-stem-career-is-right-for-you/>.)

1. Use the infographic to determine what STEM career is right for you.
2. Why do you think you ended up at this career? (Think about your personality and skills as you answer this question.)

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(Image can be found at <https://www.ffanewhorizons.org/2017/11/22/ag-101-the-mother-ship/>.)

1. How has agricultural technology evolved over the years?
2. What impact does this change have on agriculture's ability to feed a growing population?

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Select a career focus area of interest to you (use AgExplorer.com) and create a Tweet about that the focus area.

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Identify as many agriculture courses that are offered in your school as you can.

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(Image can be found at <https://nfu.org/>.)

Where does the money go when you purchase a food product at the store?

