

NAME: _____

Appendix 5: Convincing Cotton Cynics

Created: Summer 2019 by the National FFA Organization

DIRECTIONS:

Part 1

Read "Convincing Cotton Cynics" in the Summer 2019 issue of *FFA New Horizons*. Answer the questions below.

1. Circle the items made with cotton and cotton by-products.



1. Look around your classroom. Identify 5 items produced from cotton.

7. How does cotton production affect your daily life?

6. What has Garrett learned from producing cotton?

2. How many acres of cotton did Garrett start with?

3. How many acres does Garrett currently have?

4. What happened to his first crop?

5. "Growing cotton not only has been a

_____ (_____) project for me, but also has been a way for me to _____ an _____ after it's been _____ and _____.

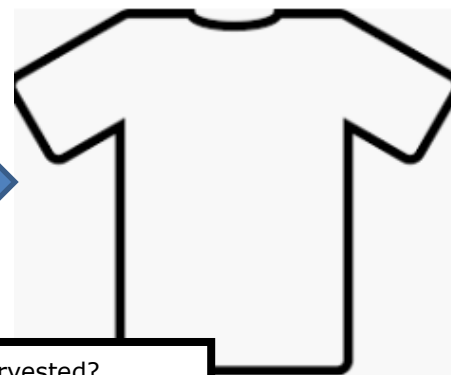
NAME: _____

Aligned to the following standards:
FFA. PL-A; FFA. PL-C.; FFA. PL-D.; FFA. PL-E; FFA. PG-J.; FFA. CS-M.; FFA. CS-N.; FFA. CS-O;
CCSS. RI.9-10.2; CCSS. RI.9-10.4; CCSS. W.9-10.2; CCSS. W.9-10.4;
CCSS. ELA. WHST.9.10.4; CCSS. SL.9-10.4; CCSS. ELA. W.9-10.4 CRP.02; CRP.04

Part 2

DIRECTIONS:

Reference this website, <https://kids.kiddle.co/Cotton>, to answer the questions below.



1. Describe the machines used to harvest cotton.

2. What is the process after cotton is harvested?

3. Describe the strength of cotton fibers.

4. What happens to the cottonseed after it is removed?

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To further learn about cotton production, watch *The Story of Cotton* and answer the questions below. The video URL is https://www.youtube.com/watch?v=AAUQNMIdp_Y. While watching the video, focus on the steps from planting to the finished product, flower of the cotton plant and how farmers know when it is time to harvest. *If YouTube is blocked, read this article (or one similar), "Cotton is a Miracle of Nature," to answer the questions. The URL for the article is <http://www.nccotton.org/wp-content/uploads/2012/05/cottonmiraclewebformat.pdf>.*

What are **10** cool facts you learned about cotton production while watching the video? *List the facts below.*

How does a farmer know when it is time for harvest?



Using the facts you listed, write a 2- to 3-sentence summary of the video.



Read the passage to the left. How does cotton contribute to the economy?

Cotton is one of the most important textile fibers in the world, averaging about 25 percent of total world fiber use. The United States is the world's third-largest cotton producer and the leading cotton exporter, accounting for one-third of global trade in raw cotton. The U.S. cotton industry accounts for more than \$21 billion in products and services annually, generating more than 125,000 jobs in the industry sectors from farm to textile mill.

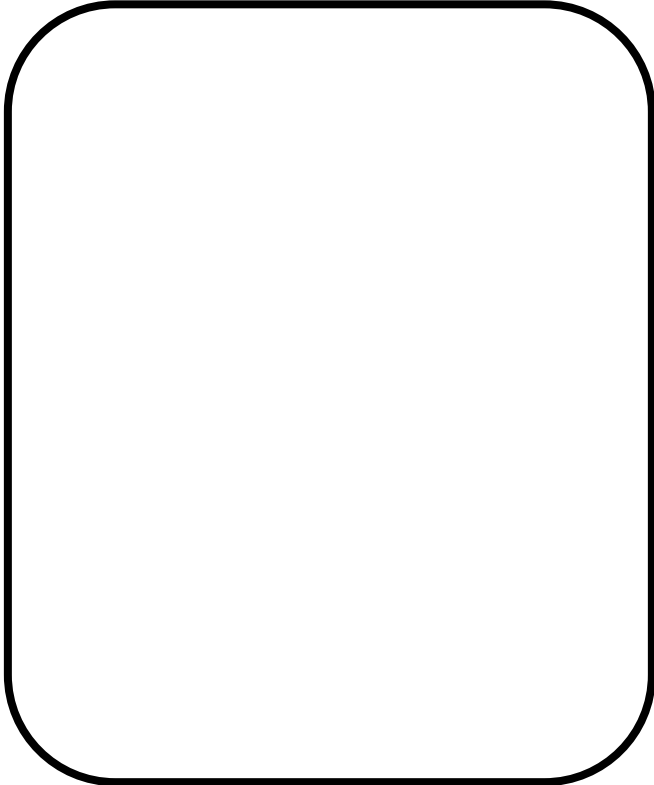
(<https://www.ers.usda.gov/topics/crops/cotton-wool/>)

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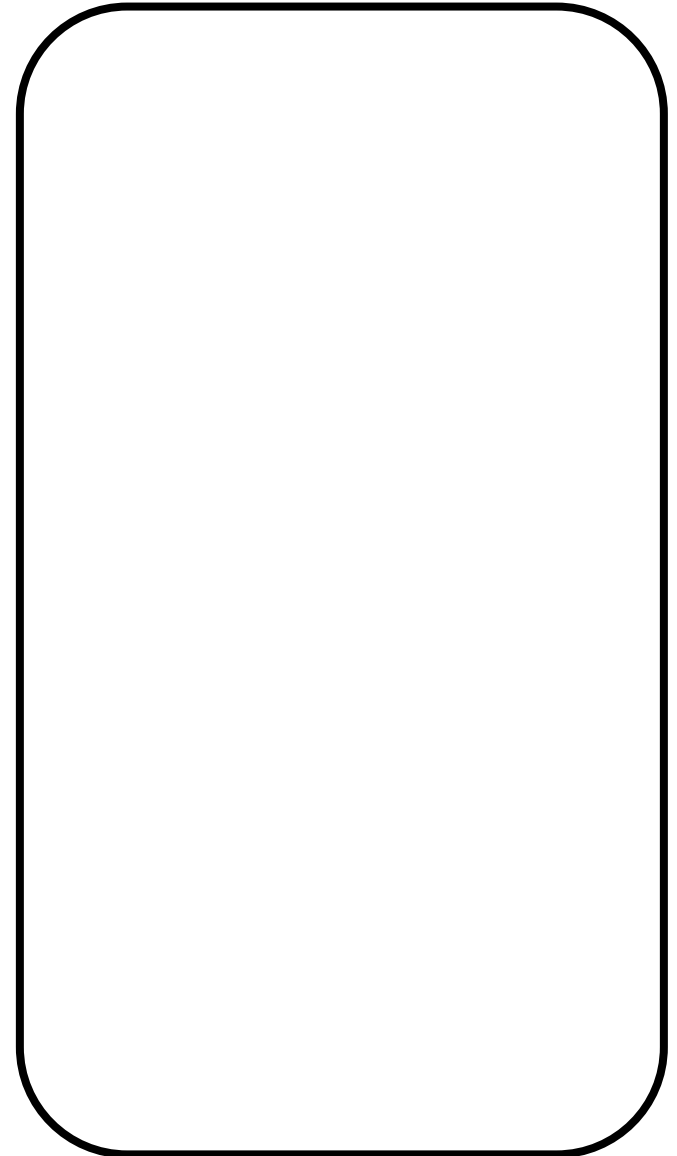
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CCSS.ELA.WHST.9.10.4; CCSS.SL.9-10.4; CCSS.ELA.W.9-10.4 CRP.02; CRP.04

In the labeled areas below, draw a cotton plant and cotton boll and describe each.

Cotton Plant:



Cotton Boll:



NAME: _____

Part 3

DIRECTIONS

Utilize this website, <https://www.cotton.org/pubs/cottoncounts/story/where.cfm>, to answer the questions below.

Aligned to the following standards:

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CCSS.ELA.WHST.9.10.4; CCSS.SL.9-10.4; CCSS.ELA.W.9-10.4 CRP.02; CRP.04

1. What climate can cotton grow in?

2. Why can cotton not be grown in certain climates?



4. What countries grow most of the world's cotton?

3. What is the average yield for cotton?

What does yield mean?



Color the states/region where cotton is produced in the United States.

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CCSS. ELA. WHST.9.10.4; CCSS. SL.9-10.4; CCSS. ELA. W.9-10.4 CRP.02; CRP.04

KEY — Appendix 5: Convincing Cotton Cynics

Created: Winter 2018 by the National FFA Organization

DIRECTIONS:

Read "Convincing Cotton Cynics" in the Summer 2019 issue of *FFA New Horizons*. Answer the questions below.

1. Circle the items made with cotton and cotton by-products.



1. Look around your classroom. Identify 5 items produced from cotton.
Answers will vary.

2. How many acres of cotton did Garrett start with?
Garrett started with 5 acres of cotton on his family's farm.

3. How many acres does Garrett currently have?
Since he started, his production has grown to 130 acres.

4. What happened to his first crop?
It was hard to find cotton seed to plant, and he ended up using seed from a discarded bag in a local warehouse. His first crop was ruined in a flood.

7. How does cotton production affect your daily life?
Answers will vary.

6. What has Garrett learned from producing cotton?
Producing cotton has taught Garrett that taking chances can really pay off, especially if it is something you have a passion for.

5. "Growing cotton not only has been a supervised agriculture experience (SAE) project for me, but also has been a way for me to generate an income after it's been ginned and graded."

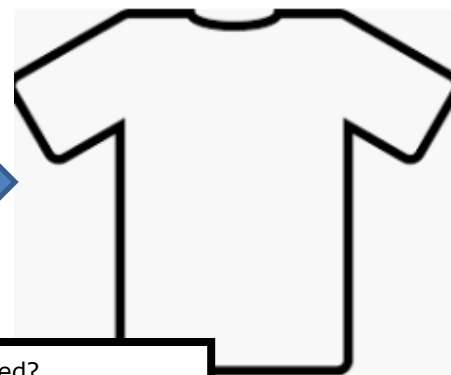
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CCSS.ELA.WHST.9.10.4; CCSS.SL.9-10.4; CCSS.ELA.W.9-10.4 CRP.02; CRP.04

Part 2

DIRECTIONS:

Reference this website, <https://kids.kiddle.co/Cotton>, to answer the questions below.



1. Describe the machines used to harvest cotton.

Cotton picker – removes the cotton from the boll without damaging the cotton plant.

Cotton stripper – strips entire boll off the plant.

2. What is the process after it is harvested?

Cotton must be combed to remove the seeds. This was labor intensive until the invention of the cotton gin. The cotton gin quickly separates the seeds from fiber and combs them for spinning.

3. Describe the strength of cotton fibers.

A single fiber is not terribly strong. However, when multiple curling fibers are straightened and twisted together, they form a strong, smooth thread that can be knitted, woven or dyed.

4. What happens to the cottonseed after it is removed?

The cottonseed that remains after the cotton is ginned is used to produce cottonseed oil, and after refining, it can be consumed by humans. The cottonseed meal that is left is usually fed to livestock.

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To further learn about cotton production, watch *The Story of Cotton* and answer the questions below. The video URL is https://www.youtube.com/watch?v=AAUQNMidp_Y. While watching the video, focus on the steps from planting to the finished product, flower of the cotton plant and how farmers know when it is time to harvest. *If YouTube is blocked, read this article (or one similar), "Cotton is a Miracle of Nature," to answer the questions. The URL for the article is <http://www.nccotton.org/wp-content/uploads/2012/05/cottonmiraclewebformat.pdf>.*

What are **10** cool facts you learned about cotton production while watching the video? *List the facts below.*

Answers will vary.

How does a farmer know when it is time for harvest?
*When the plant leaves are dried and a sea of white surrounds the farmer.
(~3:39 mark)*



Using the facts you listed, write a 2- to 3-sentence summary of the video.
Answers will vary.



Read the passage to the left. How does cotton contribute to the economy?
The U.S. is the world's third-largest cotton producer and leading cotton exporter. The U.S. cotton industry accounts for more than \$21 billion in products and services annually. This generates more than 125,000 jobs in the industry.

Cotton is one of the most important textile fibers in the world, averaging about 25 percent of total world fiber use. The United States is the world's third-largest cotton producer and the leading cotton exporter, accounting for one-third of global trade in raw cotton. The U.S. cotton industry accounts for more than \$21 billion in products and services annually, generating more than 125,000 jobs in the industry sectors from farm to textile mill.

(<https://www.ers.usda.gov/topics/crops/cotton-wool/>)

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CCSS. ELA. WHST.9.10.4; CCSS. SL.9-10.4; CCSS. ELA. W.9-10.4 CRP.02; CRP.04

In the labeled areas below, draw a cotton plant and cotton boll and describe each.

Cotton Plant:

This website provides an extensive description of the parts of the cotton plant.

<https://www.cottonacres.com/cotton-plant/>



Cotton Boll:

This website provides an extensive description of a cotton boll. (6th paragraph)

<http://www.cottonsjourney.com/storyofcotton/page3.asp>

NAME: _____

Part 3

DIRECTIONS

Utilize this website, <https://www.cotton.org/pubs/cottoncounts/story/where.cfm>, to answer the questions below.

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CCSS.RI.9-10.2; CCSS.RI.9-10.4; CCSS.W.9-10.2; CCSS.W.9-10.4;
CCSS.ELA.WHST.9.10.4; CCSS.SL.9-10.4; CCSS.ELA.W.9-10.4 CRP.02; CRP.04

1. What climate can cotton grow in?

Cotton grows in warm climates.



2. Why can cotton not be grown in certain climates?

Because the climate is not warm enough.



4. What countries grow most of the world's cotton?

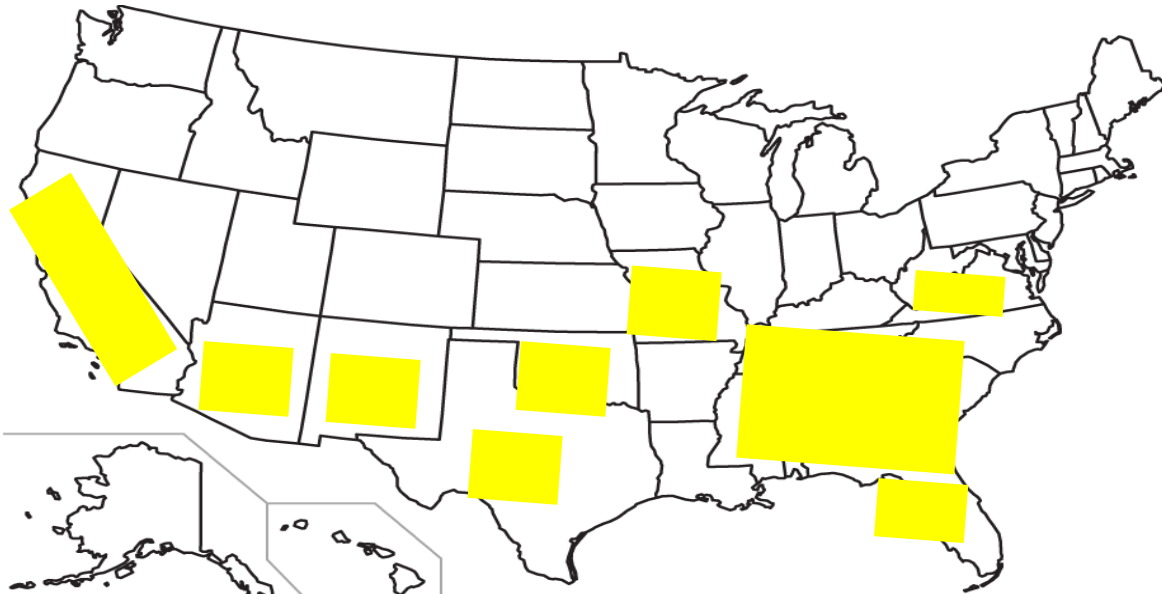
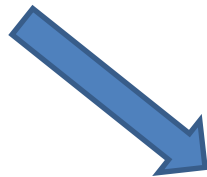
U.S., Uzbekistan, the People's Republic of China and India.



3. What is the average yield for cotton?

1 1/3 bales per acres and about 1,078 pounds of seed.

What does yield mean?
To produce or provide



Color the states/region where cotton is produced in the United States.

Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Florida, Kansas, Virginia