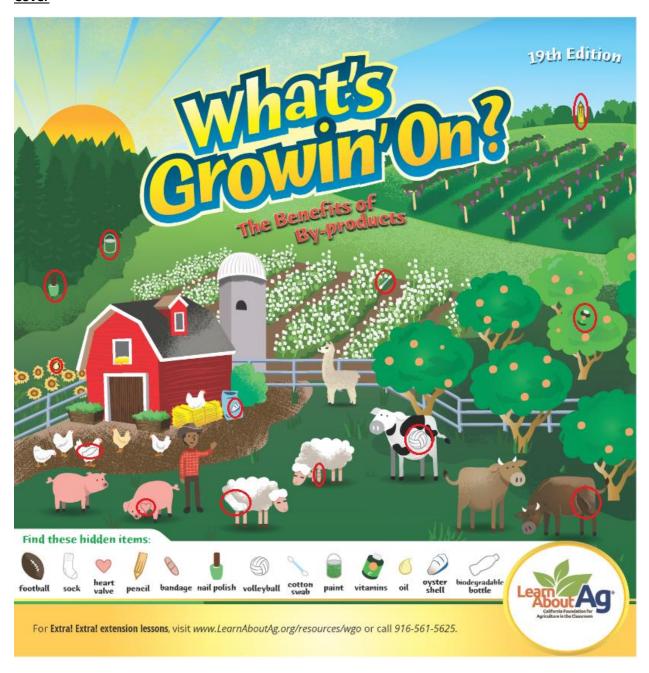
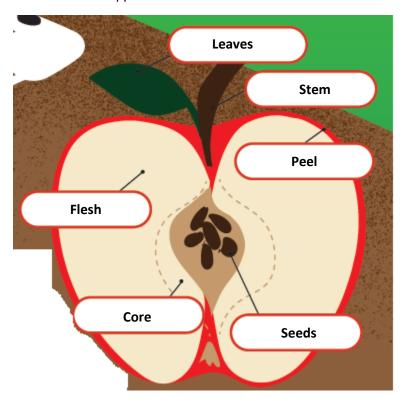
Cover



Page 3
What's the Use?

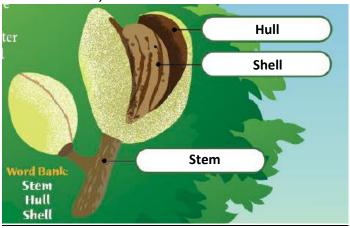
| Commodities | By-Products | Use for Final Product | |
|-------------|--------------------|-----------------------|--|
| Tomato | Peels and Seeds | Animal Feed | |
| | Pomace and Seeds | Animal Feed | |
| Apple | Skins and Seeds | Fabric Dye | |
| Avocado | | Electricity & Compost | |
| Onions | Onion Skins | | |
| Carrots | Pomace Animal Feed | | |
| | | | |

What's Inside an Apple



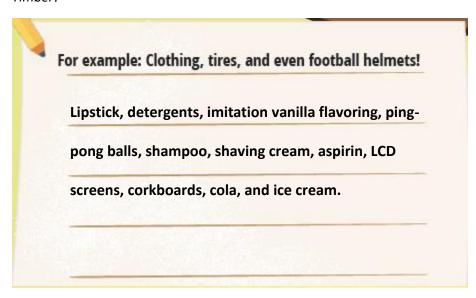
Page 4

Almond Anatomy



Page 5

Timber!



Match Me!

| Match Mel | | dan | | ** |
|---|----------------|--------------|-------------------------|-------|
| To make the following items, rice and wheat by-products are used. Using the sources included on | g pellets _ | Rice | animal | Rice |
| this page, research and write next to each picture | cosmetics _ | Rice | bedding | |
| whether you think it is a by-product of rice or wheat Have an adult check your | . straw bales_ | Rice & Wheat | building — materials | Wheat |
| answers online to see if you're correct! Standard: CC ELA: RI.5.7 | poultry feed . | Rice & Wheat | ethanol — | Wheat |

Serving Up the Right Size! (Answer for 30 students)

This recipe is for two pizza crusts. What if you wanted to make pizza crust for your entire class? Determine the numbers of crusts needed and rewrite the recipe below.

servings: 30 packages of dry yeast: 15 warm water: 15 cups
sugar:15 teaspoons or 5 tablespoons salt:15 teaspoons or 5 tablespoons canola oil:1 % cups & 2 tablespoons

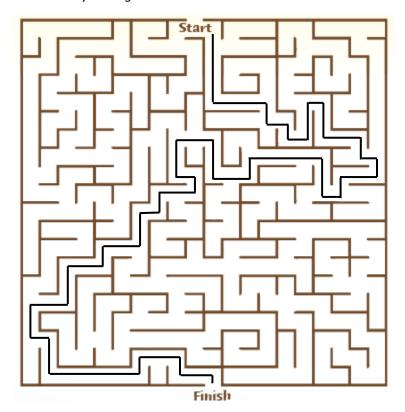
whole wheat flour: 18 % cups all-purpose flour: 18 % cups cornmeal: Approximately 1 cup

Standards: CC Math: 3.MD.A.2, 5.NF.B.6

Corn Belt



Find the way through the "maize"!



On and Off the Hoof/Foot

| the production of a plethora of products. So strings from sheep, bone china from pigs, co | sed for meat consumption associations ampoo can come from cattle, tennis racquet indies from goats, and pilkow stuffing from ir the meat is harvested! Calculate the percent what seek broesteds animal provides based or |
|--|--|
| BEEF CATTLE: Average weight is 1,000 pounds. Meat provided is 430 pounds. 43 % Meat provided 57 % By-products provided | SHEEP: Average weight is 135 pounds Meat provided is 62 pounds. 46 % Meat provided 54 % By-products provided |
| SWINE: Average weight is 282 pounds Lean meat provided is 116 pounds 41 % Meat provided 59 % By-products provided | GOATS: Average weight is 65 pounds. Meat provided is 35 pounds. 54 % Meat provided 46 % By-products provided |
| TURKEYS: Average weight is 33 pounds. Meat provided is 26 pounds. 79 % Meat provided 21 % By-products provided | CHICKENS: Average weight is 6 pounds. Meat provided is 4 pounds. 67 % Meat provided 33 % By-products provided |

Page 10

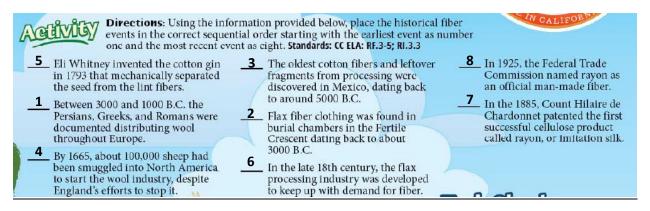
Dairy Division

Dairy Division

- 1. If an average cow produces 22,916 pounds of milk in one year, how much is she producing daily?
- 62.78 pounds per day
- 2. Considering these averages, how many cows will it take to produce 100,000 pounds?
 - 4.36 cows
- 3. If a gallon of milk weighs 8.6 pounds; how much does a quart weigh? Hint: There are 4 quarts in 1 gallon!
- 2.15 pounds in 1 quart
- 4. A milk tanker can transport 12,000 gallons in one trip; how many pounds of milk are in 1 tank?
- 103,200 pounds of milk

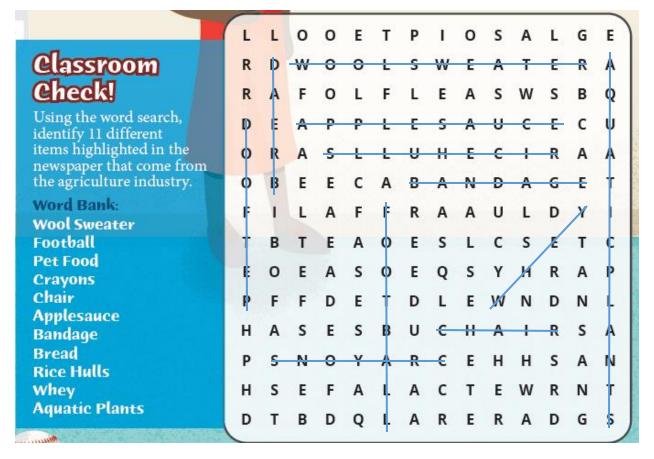
Standards: CC Math: 4.0.A.A.2, 4 MD.A.1, 6 NS.B.2, 5 MD.A.1

Famous Fibers



Page 14

Classroom Check



Soybean Did You Know?

3,417 boxes of crayons.

<u>Page 16</u>
What by-products come from California's Top Commodities?

