Why is Kansas called the "wheat state?" It's because Kansas farmers usually produce more wheat than farmers in any other state. The top five wheat-producing states are Kansas, North Dakota, Montana, Washington and Oklahoma. Wheat, a member of the grass family of plants, is a cereal grain. That means the plants produce seeds used as food by people. In fact, worldwide, wheat is the most widely consumed cereal grain. Much of that wheat is grown right here in Kansas! Nutrition Facts

Wonderful Wheat

Whole wheat grain

### Where can you find wheat?

Wheat is in a variety of products, both edible and nonedible. Which ones do you use most often?



In addition to the main plant and stem, a wheat plant's root system can develop many other side plants. Each of those "tillers" may produce a stem with a seed head but still shares the same root system.

WHEAT

GROWTH

CYCLE

Flowering

Pollination

As a plant's stem grows, nodes (swollen bumps) appear where leaves or branches may develop. Wheat is at the "jointing" stage when the first node can be seen and the seed head begins pushing up the stalk (stem).

Heading

Jointin, y

Wheat is ready to harvest when the seeds are fully developed. At this point, the wheat plants have died and changed into the beautiful golden color. That color change signals that the plant is dry and will be easier to cut.

Maturity

Seedling

Ripening

Seed

### CAREER CORNER: Careers in the Wheat Industry

**Wheat Researcher:** Helps develop technology to speed up process of creating a wheat plant with characteristics that help it flourish and produce nutritious food. Classes in math, science, chemistry and biology help prepare for this career.

**Grant Writer:** Helps find funding to pay for supplies, technology and people to advance cutting edge research that helps build a better wheat plant. Needs good marketing, communication skills and organizational skills.

**Food Safety Specialist:** Preserves the food supply by assuring it is safe and wholesome. Enforces Food and Drug Administration guidelines for food safety in food production facilities.

For a pizza making activity, visit <u>Kansas Wheat</u>.

### **FUN FACT**

The round-Shaped cylinders (storage bins or silos) of most grain elevators are 100 to 120 feet tall, about the same height as a 10- or 12-story building.



## Label the parts of the wheat Kernel!



nutrients.

Key: I. Head 2. Leaves 3. Roots 4. Awn 5. Seed (Kernel) 6. Stems

# DO THE MATH

On average, Kansas produces about 328 million bushels of wheat. A bushel of wheat weighs 60 pounds. That's nearly 20 BILLION pounds of wheat EACH year!

There are 12,000 wheat seeds in one pound. How many wheat seeds are Kansas farmers producing

#### #1 #2 every year? 12,000 seeds/pound young wheat plants planting 20,000,000,000 pounds/year **#**4 #3 green wheat in harvesting Spring Answer: 240,000,000,000,000 seeds #5 #6 **FUN FACT** Christopher Columbus brought delivered to delivered to flour the first wheat to the Americas in The first wheat elevator for mill for processing 1492. grown in the U.S. storage was planted in 1777. #7 #8 cleaned and milled transported to into flour food factory and made into products FUN FACT #9 George Washington was one of the first major wheat growers in the U.S.! Growing See wheat harvest in action! the grain was so important to him that To watch the Peterson Farm he designed a unique 16-sided barn that Brothers harvest wheat on their final product sold helped make separating the wheat Kernels family farm in Kansas, visit: from the rest of the plant easier. at stores bit.ly/wheatharveStvideo



Learn more about Kansas agriculture at www.ksagclassroom.org.



# FROM FARM TO TABLE

Kansas farmers grow winter wheat. This type of wheat is planted in September or October and starts growing. The plants go dormant (stop growing) in the winter before starting to grow again the spring. In Kansas, winter wheat is harvested in June or July.