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## Ag Mag: Wheat Guided Reading Questions

<u>Directions:</u> Read the article titled "Wheat" one page at a time. After reading each page, answer the questions about what you read.

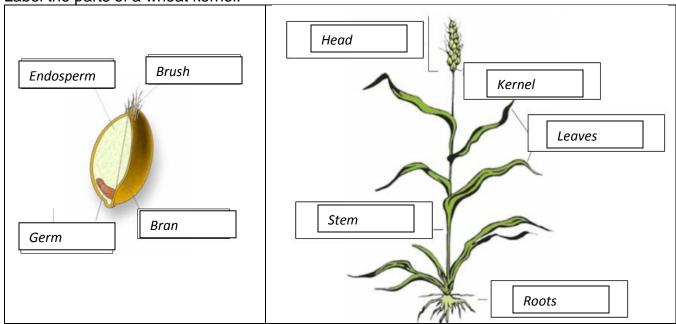
What is Wheat?		
What type of food is wheat?		
Wheat is a grain.		
2. What type of plant is wheat?		
Wheat is a grass.		
3. Define the following parts of a wheat plant by filling in the blank lines.		
Tillers: 3-12Stems on a wheat plant.		
Spike: A group of <u>Flowers</u> at the top of a tiller.		
<b>Kernel:</b> Turn <u>Golden</u> before harvest.		
Wheat in Illinois		
What variety of wheat is grown in Illinois?     Soft Red Winter		
E. List 2 types of <b>foods</b> that use this type of wheet		
5. List 3 types of <b>foods</b> that use this type of wheat.		
1. Flat breads 4. Cookies 7. Pancakes		
2. Cereals 5. Pretzels 8. Biscuits		
3. Cakes 6. Pastries		
3. Cakes 6. Pastries 6. List 3 non-food items that use Illinois wheat.		
6. List 3 non-food items that use Illinois wheat.		

## **Wheat FACTS**

- 7. How many kernels are in a pound of wheat? <u>12,000 14,000</u>
- 8. TRUE or FALSE circle one): Wheat is only grown in Illinois.

## Wheat Kernel vs. Wheat Plant

9. Label the parts of a wheat kernel.



10. How do you get whole wheat flour from a whole wheat kernel?

Endosperm, bran, and germ are ground together

## **Wheat Production and Nutrition**

11. What happens to the wheat kernel after planting?

Absorbs moisture and swell

12. What area of the My Plate would you find wheat?

Grains Food Group

- 13. Wheat is a **complex carbohydrate**, which is the most efficient source of <u>Energy</u> and aids in <u>Brain</u> functions.
- 14. List 2 vitamins and minerals found in wheat.
  - 1. Protein 3. Riboflavin 5. Iron
  - 2. Thiamin 4. Niacin 6. Zinc

<u>Mill</u> 15	5. How is <b>gluten</b> used in baking?	
	Makes dough elastic	
16 ]	6. Why are <b>wheat germ</b> and <b>wheat germ oil</b> used in foods?	
	Improve flavor / Nutritional value	
Growing & Exporting and Cover Crops  17. List 3 benefits of good cover crops.		
	1. Reduce Erosion 5. Improved water quality 9. Excellent forage/feed source	
	2. Improved soil quality/health 6. Minimize nutrient loss 10. Improved profitability	
	3. Improved organic matter 7. Reduced production costs	
	4. Improved soil hydrology 8. Reduced weed/pest/disease pressure	
18 Care	at Timeline 3. When was wheat first planted in the U.S. as a hobby crop?1777  eer Corner  9. According to Jim Schielein, is growing wheat more popular in Southern or Northern Illinois? Explain why?  Southern.  The ability to grow wheat and soybeans in the same year (double cropping)	
20	Develop new technology      List 2 things that can be done to increase wheat production in Illinois, according to cereal production manager, Ken Davis?      Develop higher yielding varieties	
Challenge!  21. A bushel of wheat weighs 60 pounds and yields 42 pounds of white flour OR 60 pounds of whole wheat flour. Two bushels of wheat would yield how many pounds of whole wheat flour?		
	120 pounds	