

## Wheat Plant

**Beard:** The bristly spike that protects the seed kernel. Not all wheat varieties have a beard. The beard may also be called the awn.

**Head:** The part of the plant where the kernels develop. The head contains 16-24 spikelets, which produce 2-3 kernels each.

**Kernel:** The main part of the wheat plant. The kernel, also called the seed, can be planted to grow new wheat plants, used for human use in food and other products or used as animal feed.

**Stem:** The stem supports the wheat plant and transports water and nutrients. It is also called the stalk. After harvesting the kernel, the stem can be used for animal bedding or as a cover crop.

**Leaves:** Plants rely on photosynthesis to convert sunlight into energy. Leaves also help the wheat plant collect water.

**Roots:** Wheat has a fibrous root system, meaning there are numerous, shallow roots that anchor the plant in the soil and absorb water and nutrients.

## Wheat Kernel

**Bran:** The outermost protective layer of the wheat kernel is rich in fiber and nutrients. It is separated during milling to produce refined flour. The bran layers are included in whole wheat flour and can also be sold separately.

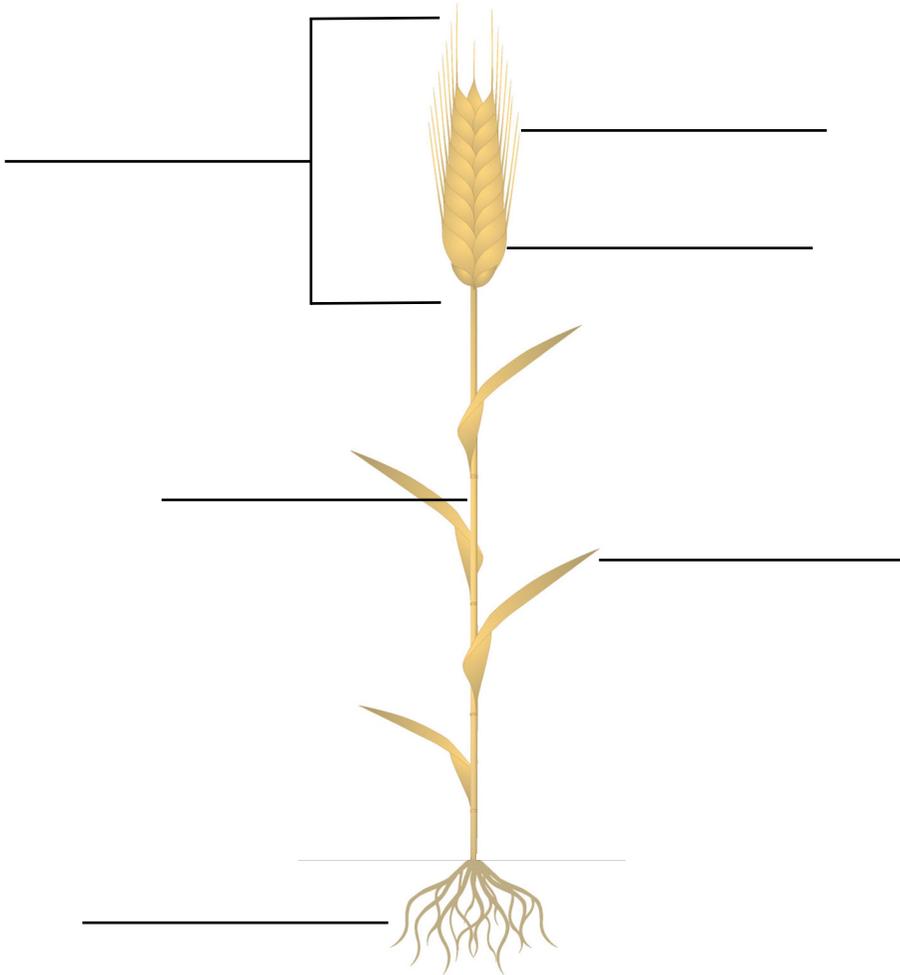
**Endosperm:** The starchy middle layer of the wheat kernel. It is ground into flour and contains carbohydrates, protein and vitamins. White flour is composed of the endosperm.

**Germ:** The nutrient-dense embryo of the wheat plant, located within the kernel. While it is important for the growth of the wheat plant, it is usually not included in flour because it can limit flour's shelf life due to the high fat content.

# Wheat Kernel & Plant Anatomy

**Directions:** Label the parts of the wheat kernel and plant using the word bank. Keep in mind some words will be used more than once.

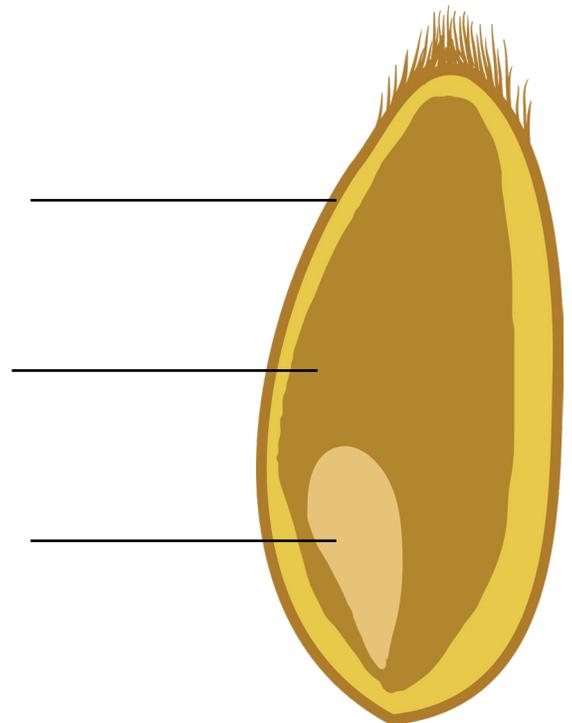
**Wheat Plant**



**Word Bank:**

- Bran
- Leaves
- Germ
- Head
- Endosperm
- Beard
- Roots
- Kernel
- Stem

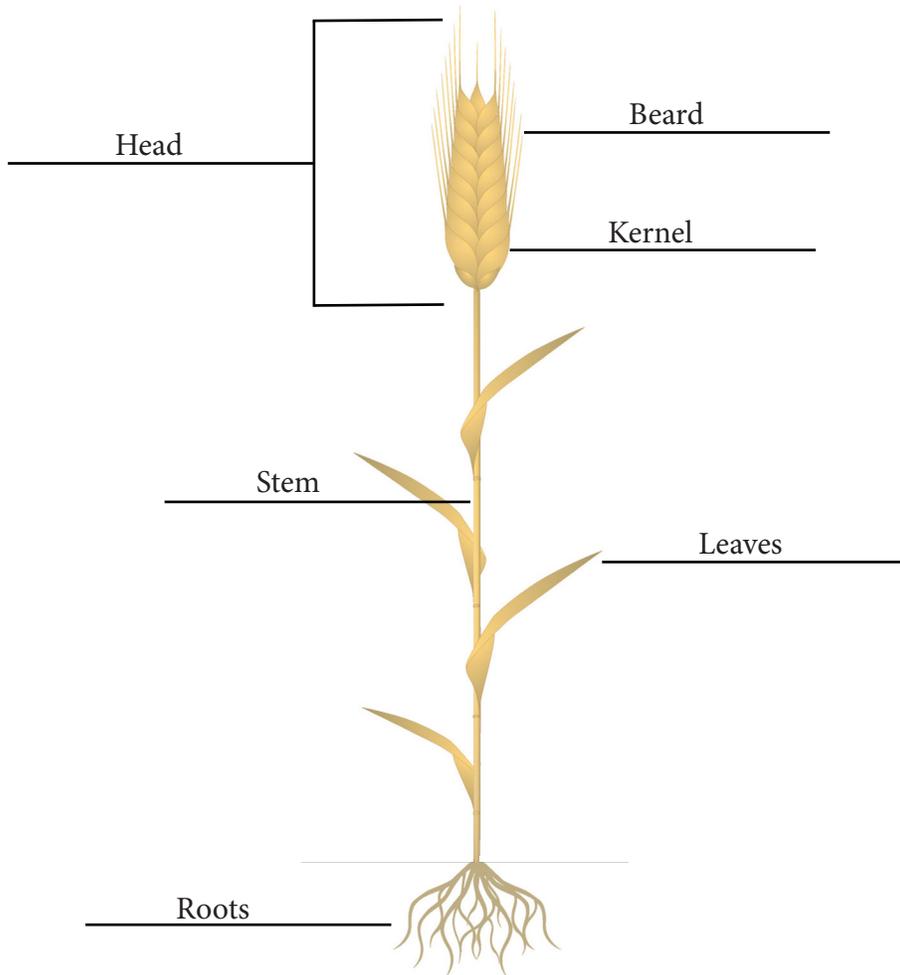
**Wheat Kernel**



# Wheat Kernel & Plant Anatomy Key

**Directions:** Label the parts of the wheat kernel and plant using the word bank. Keep in mind some words will be used more than once.

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