Mushrooms are valuable to Pennsylvania because we are the top mushroom producers in the United States! Mushrooms are unique and different from plants. First and most importantly, mushrooms are NOT plants. They are a member of kingdom fungi. Other members of The Fungi Kingdom besides mushrooms are yeasts and molds.

**Kingdom Classifications**

<table>
<thead>
<tr>
<th>Animal</th>
<th>Fungi</th>
<th>Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- Feeds on other organisms for food</td>
<td>- Make their own food through photosynthesis</td>
</tr>
<tr>
<td></td>
<td>- Multicellular</td>
<td>- Multicellular</td>
</tr>
<tr>
<td></td>
<td>- 1 million known species in this kingdom</td>
<td>- Second largest kingdom</td>
</tr>
<tr>
<td></td>
<td>- Largest kingdom</td>
<td>- Contains all flowering plants, ferns, and mosses.</td>
</tr>
<tr>
<td></td>
<td>- Within their kingdom they are characterized by their movement</td>
<td></td>
</tr>
</tbody>
</table>

- Most are multicellular, some single celled
- They obtain food by absorbing plants decaying in the soil
- Contains mushrooms, mildew, mold, and yeast

Also, did you know that mushrooms are vegetables? Not all mushrooms are edible though. There are eight types that you can eat:

- Agaricus
- Maitake
- Oyster
- Crimini
- Shiitake
- Beech
- Portabella
- Enoki

**Future MBs Take:**
- Chemistry
- Microbiology

**How Microbiologists Benefit Agriculture:**
- Study organisms that are harmful to ag
- Mushrooms (Fungi) are a PA crop

**Farm Facts**

- May is National Beef Month
- Honeybee workers must visit 2 million flowers to make one pound of honey
- Apples are a member of the rose family
- Pumpkins are 90% water
- A pig cannot sweat because they have no sweat glands

**Thanks to our Major Sponsors**

- Armstrong County Farm Bureau
- The Donald B. and Dorothy L. Stabler Foundation
- Fabin Brothers Farms LLC
- First Citizens Community Bank
- Freysinger’s Inc
- Land O’Lakes, Inc Foundation
- McCormick Family Foundation
- Northeast Agricultural Education Foundation Inc.
- Pennsylvania Dairyman’s Association
- Pennsylvania Grain Processing LLC
- Pennsylvania Soybean Board

**Career Spotlight**

Microbiologist - A field developed due to the microscope, microbiologists research microorganisms to study their behaviors, physiology, and interactions with the environment. They work with bacteria and fungi in laboratory settings using extensive and up-to-date technology.

Presented by:

- PA Farm Bureau
- PA Friends of Ag

Developed with:

- Maryland Ag in the Classroom
- Facebook

- Future MBs Take:
- Chemistry
- Microbiology

- How Microbiologists Benefit Agriculture:
- Study organisms that are harmful to ag
- Mushrooms (Fungi) are a PA crop
To make compost used by mushroom farmers.

Poisonous or Edible?

1. ____________
2. ____________
3. ____________
4. ____________

 yard Waste

Food Waste

- Plants and shrubs that are still alive
- Vegetables
- Fruit
- Coffee grinds
- Egg shells
- Tea bags
- Bread/ grains
- Corn Cobs
- Melon rinds
- Banana peels
- Dairy
- Meat
- Animal waste

Ready...Set...GO!

1. Put your food wastes in your jug
2. Sit your jug on the window sill with the blinds open
3. One time per week shake the jug and add a little water if the compost is dry
4. In 4-6 weeks your compost will be ready to use

Remember: During warmer seasons your compost will be ready sooner!