

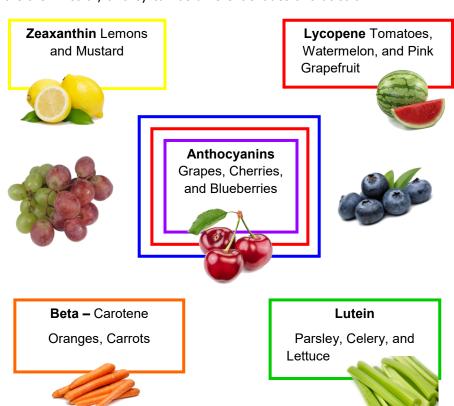
LINKS TO AGRICULTURE



Pigment Power

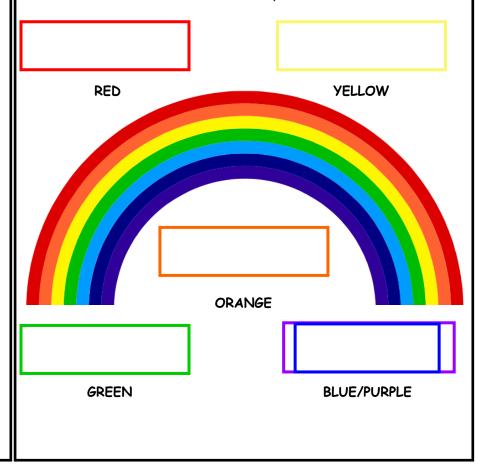
Vegetables and fruits provide many nutrients for our bodies but have you ever looked at a banana and wondered why it's the color it is? Phytochemicals are made by plants to give fruits and vegetables their color. These phytochemicals help the fruits fight off disease and infections. By eating different colored fruits and vegetables, we can get these health benefits as well!

These are some of the Phytochemical families. Some of the families can have more then 1 color; or they can be different shades of that color.



Use What You've Read

Think about what you ate today...Think about what color each of those things were... Try to eat one item from each color from the rainbow and write down what you ate.





Career Corner

Food Chemist - Food Chemists are scientists who study how foods interact with the human body at the most basic level. Their work promotes food safety, and helps doctors and dietitians understand the requirements of healthful nutrition.

How Food Chemists Benefit Agriculture:

- Food Chemists say what's good to eat
- Promote food products to the public

Food Chemists Study:

- Chemistry
- Biology









SCAN ME

Thank you to our major sponsors

- Clemens Family Foundation
- Corteva Agriscience
- Dick & Shelva Mains Fund
- Farm Credit Foundation for Agricultural Advancement
- First Citizens Community Bank
- **Glatfelter Family Foundation**
- Horizon Farm Credit
- J. William Warehime Foundation
- Kathy Berry Agency
- Land O' Lakes
- McCormick Family Foundation

- Nationwide
- Northeast Agricultural Education Foundation
- Nicholas Meat LLC
- Pennian Bank
- Pennsylvania Dairymen's Association
- Pennsylvania Farm Bureau
- PA Pork Producers Council
- PA Soybean Board
- The Hershey Company
- The Donald B. & Dorthy L. Stabler Foundation

Rubbing alcohol

3 different fall leaves

3 small glass cups

II You will need : coffee filters

Leaf A Colors

Leaf B Colors Leaf C Colors

foil

3 pencils

scissors

scotch tape

Directions

П

ш

Each leaf will have one small glass cup. Rip each leaf into small pieces and put them in the assigned cup.

What colors are really in the leaves???

- Add just enough rubbing alcohol to cover the leaf pieces.
- Cover the glass cups with foil and place each of the cups into a dish with hot tap water for 30 seconds
- The rubbing alcohol should turn green
- Now take the coffee filter and cut out (3) 1 inch wide strips so that they are as long as your glass cups are high.
- For each of your strips of coffee filter paper you are going to tape one end to the side of a pencil.
- Set the pencil across the top of the glass cups so that the bottom of the coffee filter paper just touches the rubbing alcohol solution.
- Now it's time to wait! After 1 hour you will see the leaf colors separate!









@PAFriendsofAgriculture