

GARDENING CAMP

DAY ONE: FLOWER POWER



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FLOWER POWER

Welcome to Gardening Camp Day One!

This week, the Oklahoma 4-H STEMists are going to teach you everything you need to know to become a master gardener! To kick off the week, we're going to start with the basic anatomy of plants and flowers. In order to have a successful garden, it is crucial to understand what makes up the plants and flowers that we are trying to grow!

Parts of a Plant:

There are five basic parts of a plant, the roots, stem, leaves, fruit and flowers. Learning the functions of each of these parts will allow you to have a better understanding of what your plant needs to survive and thrive!

ROOTS:

The basic function of a plant's roots is to take water and minerals from the soil to be used as food for the plant.

LEAVES:

The leaves have a very important job! Leaves are where the majority of photosynthesis takes place, and it's how the plant makes energy to survive. You will learn more about photosynthesis on day two!

FLOWERS:

Flowers have lots of jobs! The main function is for the flower to be pollinated so fruit can grow and other plants can be grown from its seeds.

Today, you are going to make your own flowers and learn how their different parts function!

Want to Learn More?

Check out the Great Plant Escape by University of Illinois Extension!

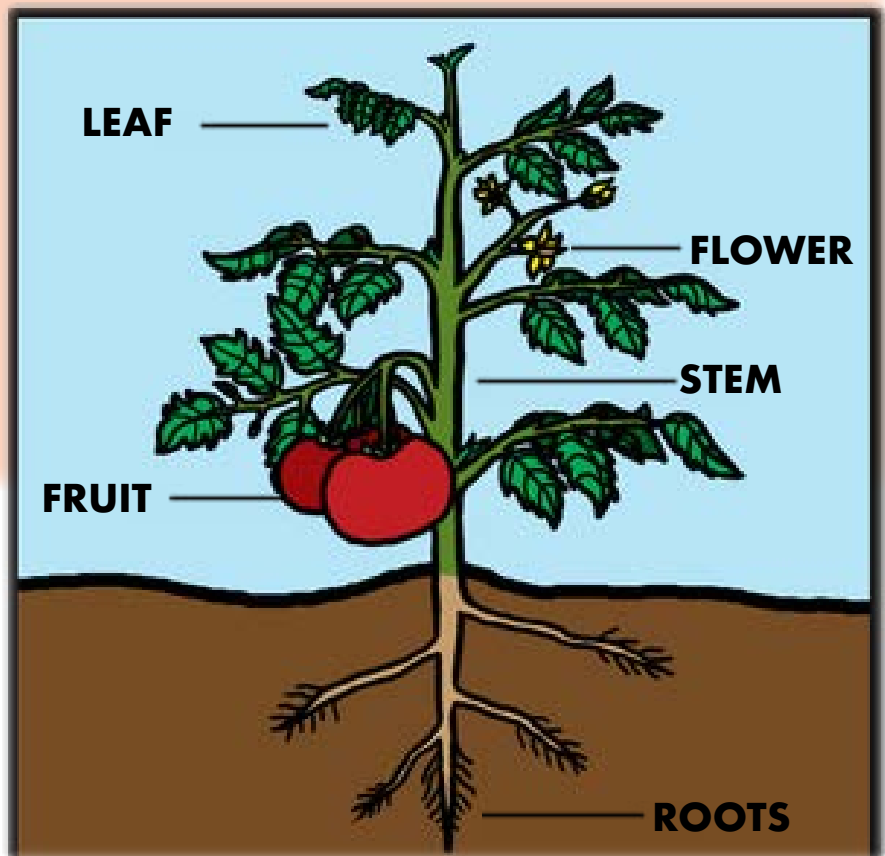
<https://web.extension.illinois.edu/gpe/index.cfm>

STEM:

The stem transports water and minerals to various parts of the plants.

FRUIT:

The plant's seeds that we use to grow new plants can be found in the fruit. Fruit takes many different shapes depending on the plant it grows on. Some plants produce edible fruit, such as apples, tomatoes, and peaches!



FLOWER POWER

Parts of a Flower:

The five main parts of a flower are the stamen, pistol, petal, sepal and stem. Each part of the flower serves a different purpose that is essential to the overall function of the plant!

SEPAL

Sepals are the green petal-like parts at the base of the flower. They help protect the developing flower!

PETAL

Petals attract pollinators, such as bees. They are usually the reason we buy and enjoy flowers!

PISTIL

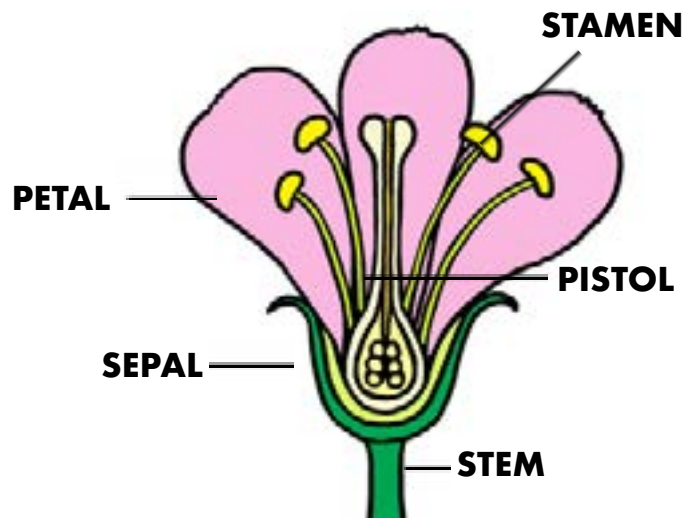
The pistil is the female part of the flower's reproductive system. The pistil has three parts, the stigma, style and ovary.

STEM

The stem of the flower serves the same purpose as mentioned before. They transport water and minerals to the flower!

STAMEN

The stamen is the male part of the flower's reproductive system. The stamen has two parts, the anther and the filament.



Plant Reproduction:

Flowers play a great role in the reproduction of plants! Just like people and animals, plants go through a life cycle, it just looks very different for them. The first step of a flowering plants reproduction cycle is pollination. Pollen is produced on the anther of a flower and travels to the stigma. If pollen moves from the anther to a stigma on the same plant, it is called self-pollination. If the pollen is transferred from the anther to a stigma on another plant, it's called cross-pollination. Once the pollen lands on the stigma, it will move through the style and into the ovary. After the pollen reaches the ovary, the flower will develop a fruit or pod to protect the seed. When the time comes, the seed will be dispersed from the plant and will go off to grow new plants!



FLOWER POWER

Make Your Own Flower!

Now that you know the different parts of a plant and flower, you're going to make your own. There is an additional coloring sheet attached to this handout for you to complete! After you finish the activity, go to the Microsoft Form and Flip Grid linked below to share what you made! If you enjoyed this activity and want to learn more, check out what Oklahoma State says about the importance of pollinators to your garden! <https://tinyurl.com/pollinatorsandgardening>

Materials

- Assorted Colored Paper
- Scissors
- Tape/Glue
- Decoration Supplies (markers, glitter, stickers, etc.)
- Pipe Cleaners, straws, wooden craft sticks, etc. (anything you can find to use as a stem)

Challenge!

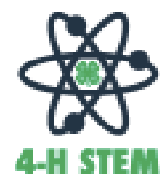
Instead of using regular copy or craft paper, try recycling materials that can be found around your house!

This could include but is not limited to, gift wrapping paper and tissue paper, old newspapers, magazines, etc.



Instructions

- Start with a SQUARE piece of paper
- Fold in half diagonally - your paper should now be shaped like a triangle.
- Fold in half a second time - your paper should now be in a smaller triangle shape.
- Fold in half a third time - you should now have an even smaller triangle shape.
- Position the paper so that the longest side is positioned vertically and the solid corner (the corner that corresponds to the paper's center) is at the bottom.
- Bring the bottom short side towards the triangle's long side, align the edges and fold.
- Use scissors to cut above the horizontal edge that you created in the previous step.
- Use scissors to cut an arc shape starting at the top corner of the triangle's vertical side and ending close to the bottom of the opposite side.
- Unfold your paper to reveal the eight-petaled flower.
- Decorate your flower and be creative!
- After you finish decorating, use glue or tape to attach the stem to the center of the back side of your flower.



Resources:
FirstPallet.Com Paper Flowers Activity





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