

Soybean Image: Image by Charles Echer from Pixabay

Just like humans, plants have different parts!



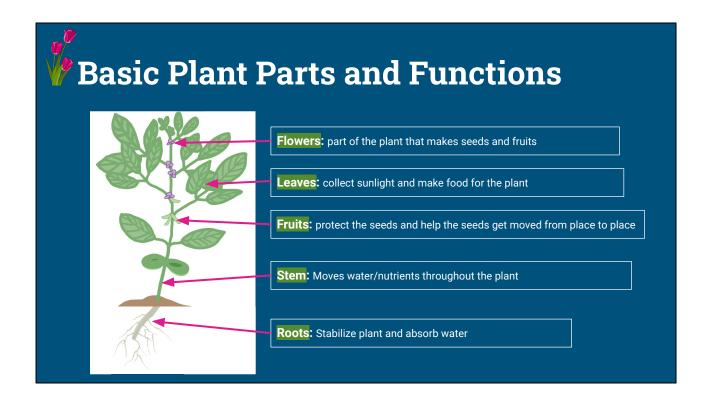
What are some plant parts that you know of?

Sunflower: Image by OpenClipart-Vectors from Pixabay

Plants have parts on the inside (internal) and parts on the outside (external) that help them grow, survive, and reproduce.



Field of Flowers Image: Image by Larisa Koshkina from Pixabay



Tulip Image: Image by Jennifer R. from Pixabay

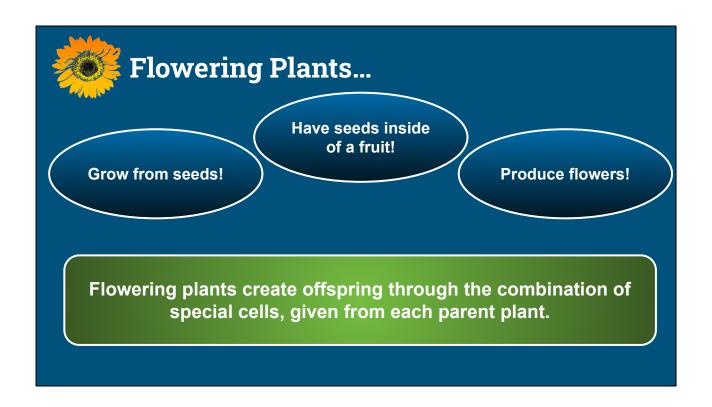


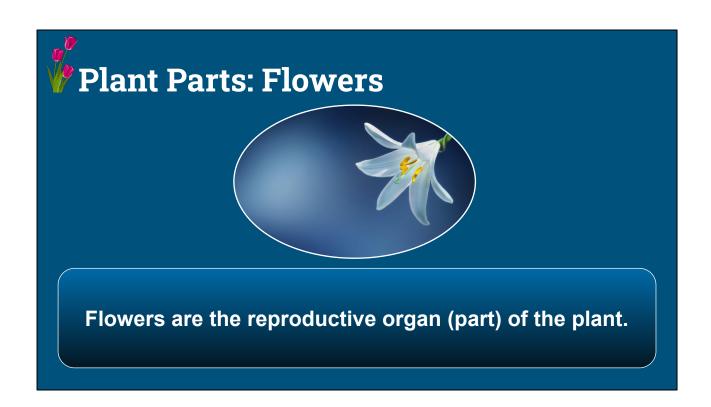


Plants have to reproduce (create offspring) to survive.

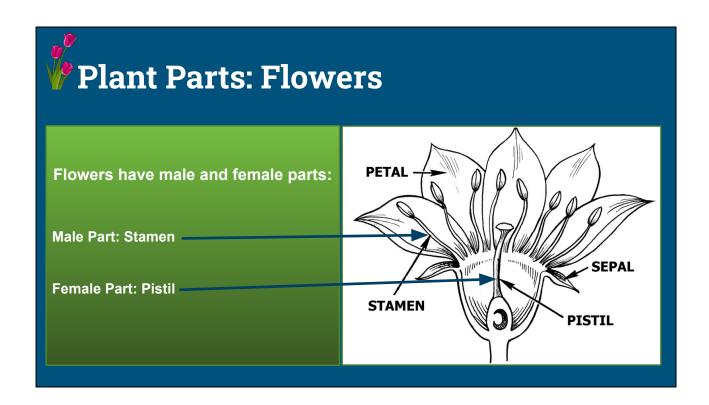
This can be accomplished using flowers, cones, or spores.

85-90% of plants reproduce using flowers!

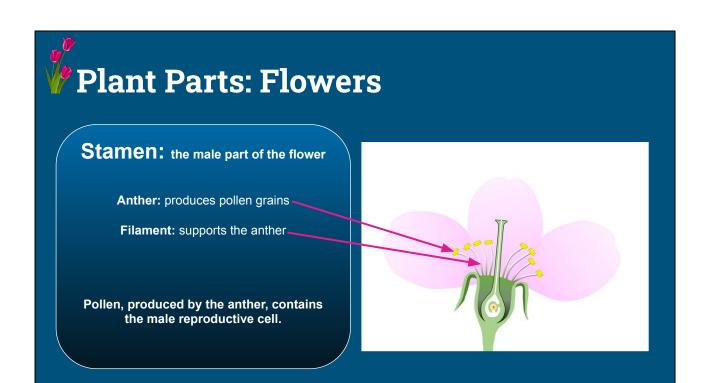




Flower Image: Image by bess.hamiti@qmail.com from Pixabay

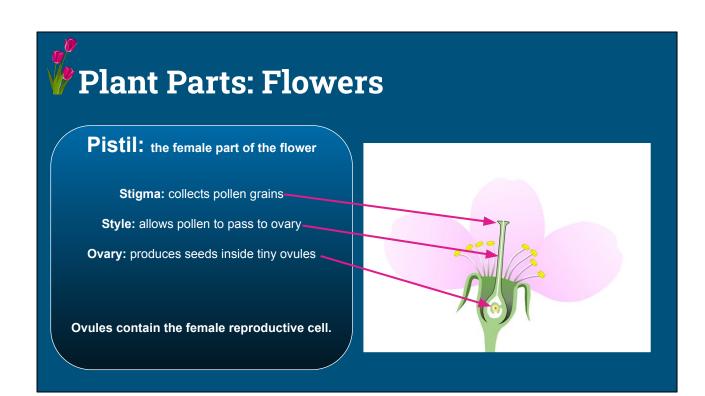


Flower Diagram: https://commons.wikimedia.org/wiki/File:Flower_Anatomy_(PSF).png



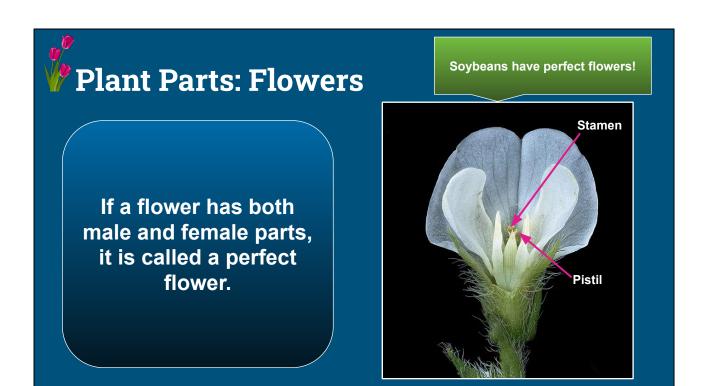
Pink Flower Diagram:

https://commons.wikimedia.org/wiki/File:Parts_of_a_peach_flower.png with license: https://creativecommons.org/licenses/by-sa/4.0/deed.en



Pink Flower Diagram:

https://commons.wikimedia.org/wiki/File:Parts_of_a_peach_flower.png with license: https://creativecommons.org/licenses/by-sa/4.0/deed.en



White Flower:

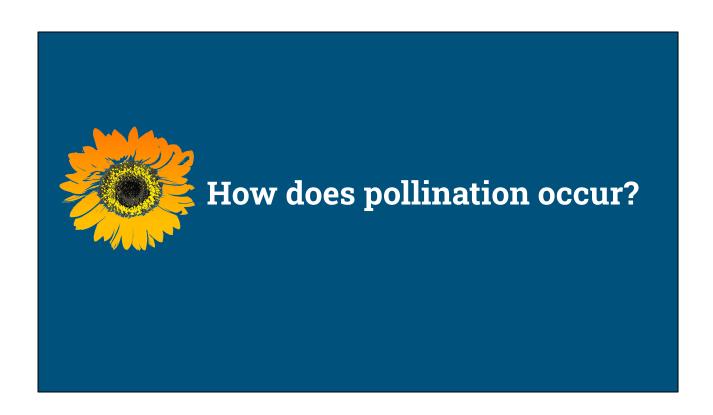
https://commons.wikimedia.org/wiki/File:Edamame, side shot, plot 2 2020-07-28-1 5.12.35 ZS copy (51494596963).jpg



Pollination occurs when pollen lands on the flower's stigma. If the pollen then joins with an ovule, a seed is produced and ultimately- a new plant!



Bee Pollen: Image by Myriams-Fotos from Pixabay





How does pollination occur?

Self-Pollination

pollen moves from anther to stigma on the same flower

Cross-Pollination

pollen moves from anther of one flower to the stigma on another flower



Pollinators, or wind, can carry pollen.

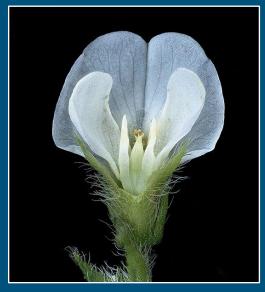
Pollinators can be insects, or other animals such as birds and bats!

Honeybee Image: Image by Pexels from Pixabay

Mention that scent and brightly colored flowers can attract pollinators. Pollen is sticky and will cling to the pollinators, then be moved to other plants as the animal moves. Plants with large anthers frequently utilize wind to blow the fine pollen grains to other flowers.

Let's create a soybean flower!







White Flower:

https://commons.wikimedia.org/wiki/File:Edamame, side shot, plot 2 2020-07-28-1 5.12.35 ZS copy (51494596963).jpg

Purple Flower: Image by Julio César García from Pixabay

Lavender Flower:

 $https://commons.wikimedia.org/wiki/File: Soybean_full_flower_2021-07-16-14.08.54_Z$

S_PMax_UDR_(51495083274).jpg



Reflection!



What do you notice about your flower?
Can you find the pistil?
Can you find the stamen?
Where would you find the pollen?
What would attract a pollinator to your flower?

Purple Flower: Image by <u>Julio César García</u> from <u>Pixabay</u>