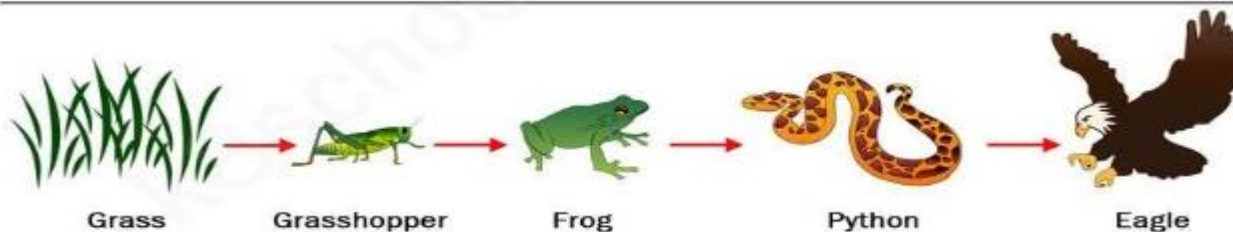
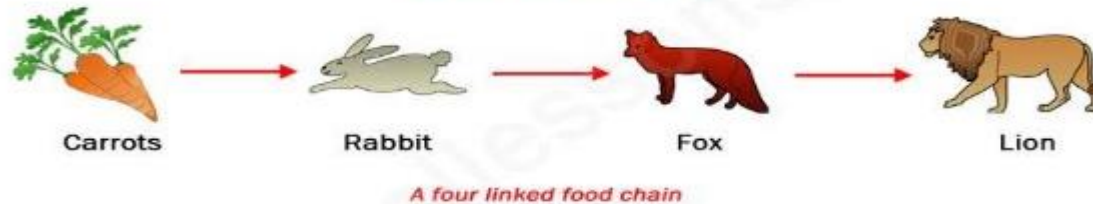


Leaf structure and function

Mr. Erick Santizo

Introduction:

- * Question 1: what are animals that a jaguar and a fox may eat?
- * Question 2: If jaguars were to eat a cow, what does a cow, a deer, or rabbit usually eat?



Explore: lets view different leaves

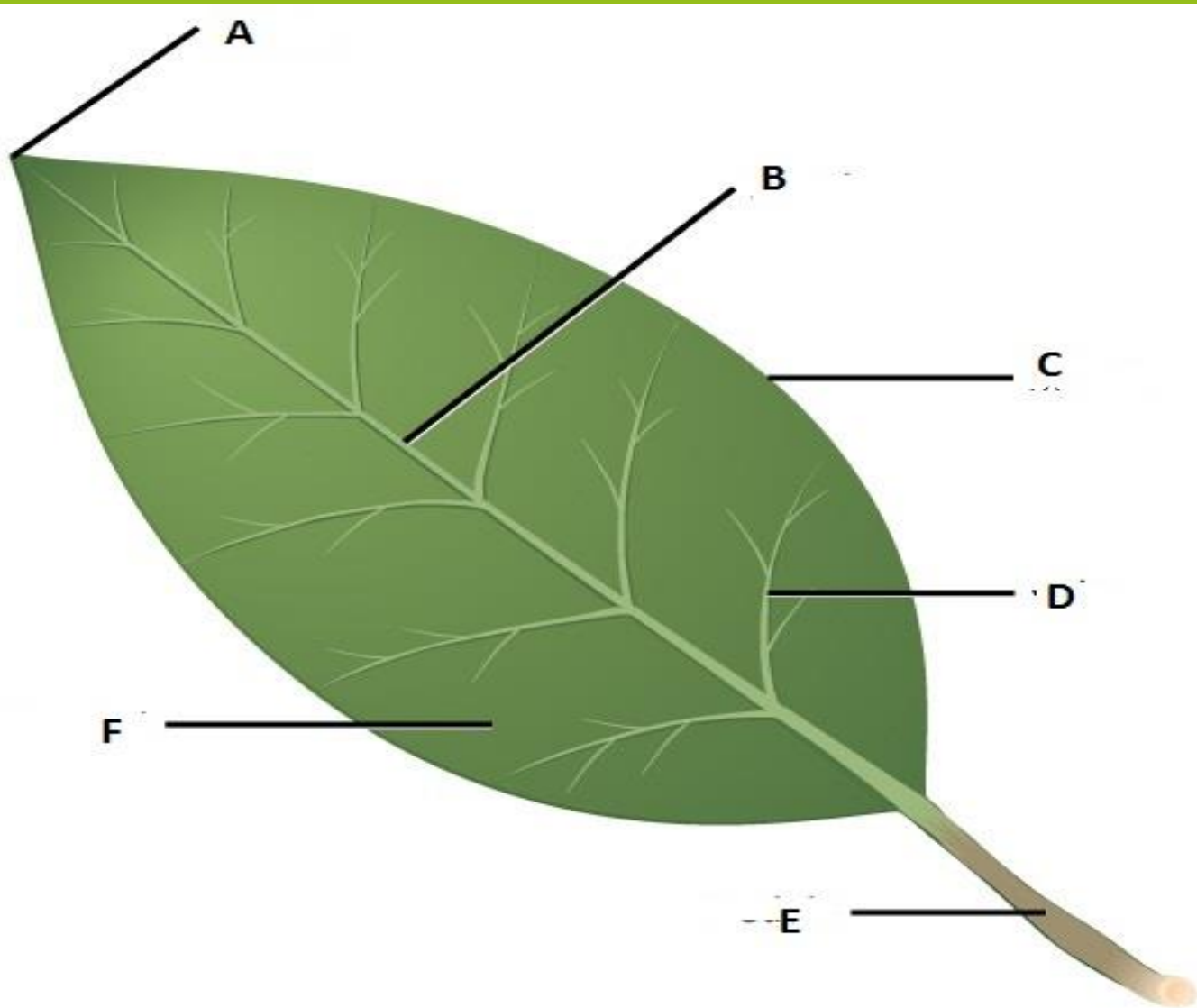
- * Let use try:
- * to identify what type of leaves we have picked out.
- * What differences do you see between the leaves you have.
- * What are something similar you can identify between the leaves.
- * Try to identify the parts of a leaf.
- * Make small diagrams of your leaf (no shading, if you want to shade use dots or * crosses (*)).

- * Also make sure to make a title underneath the drawing which can start with for example:
- * Drawing showing a leaf of a sea grape tree.

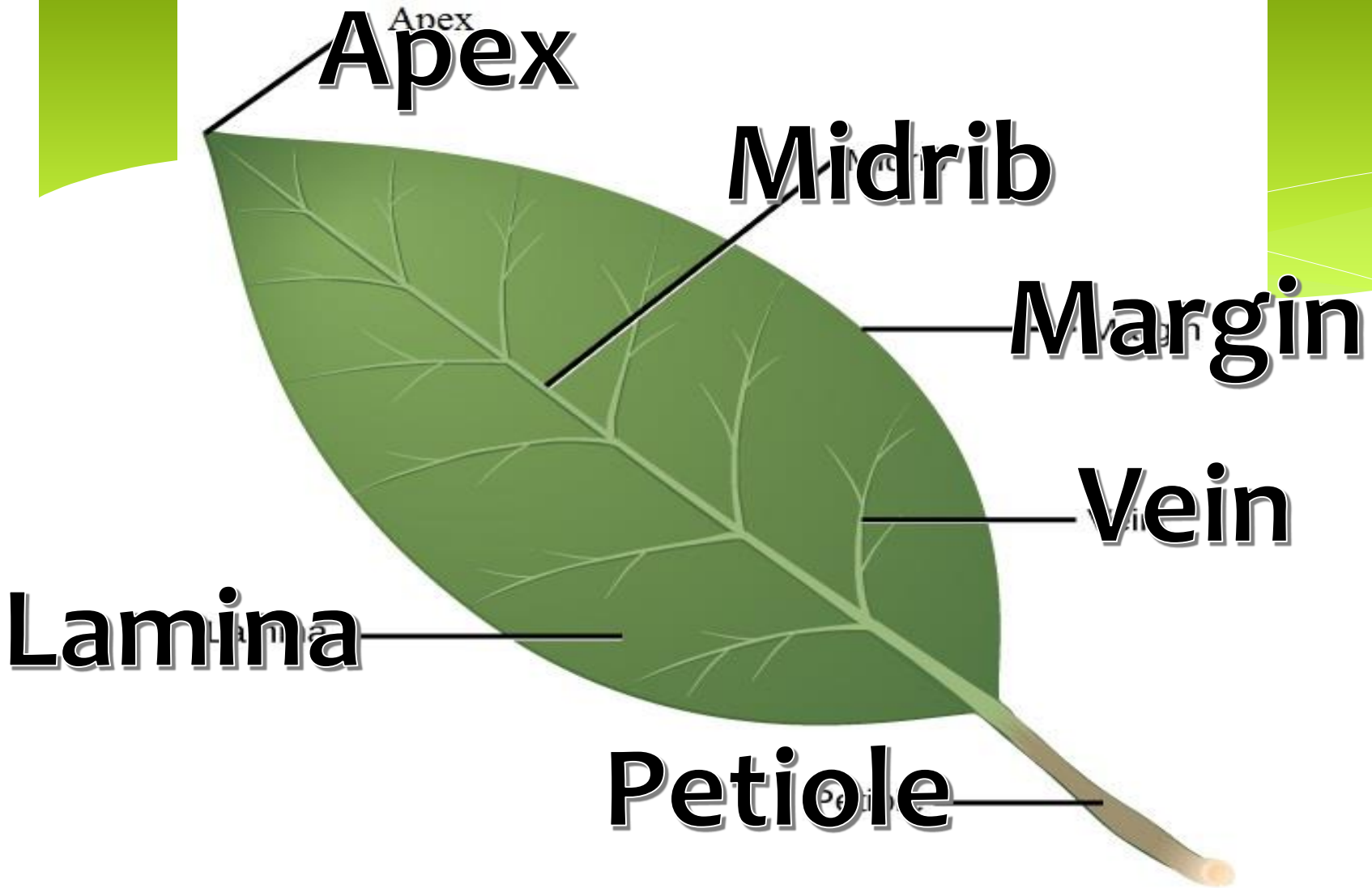


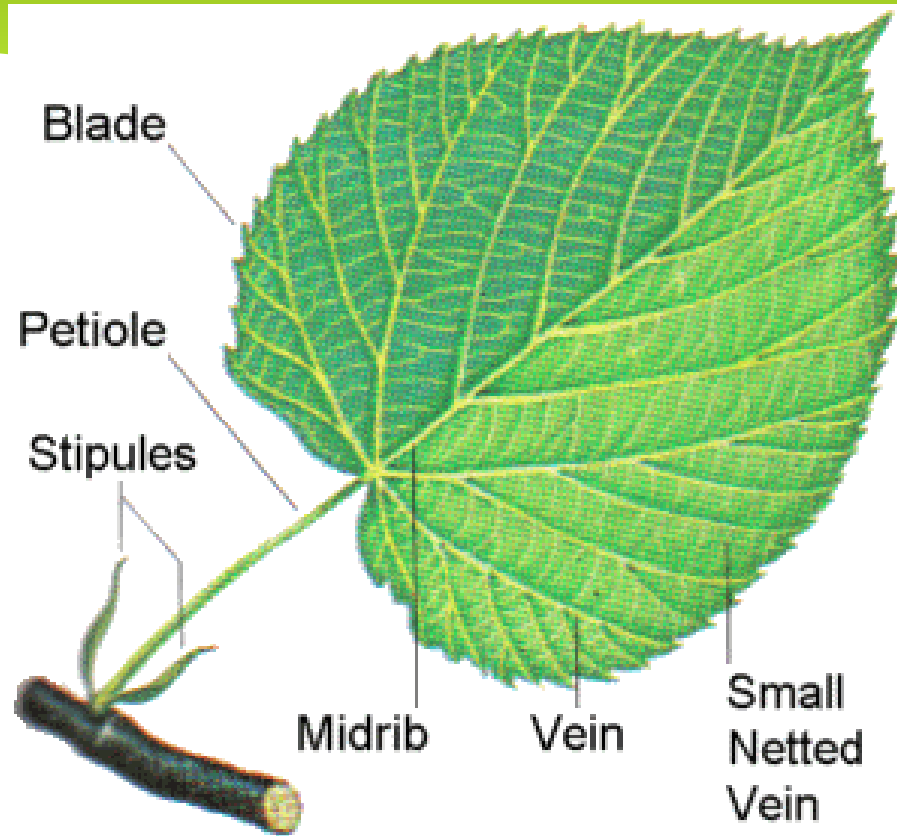
**Do you know any parts or
functions of a leaf.**

Let's look for the parts



Draw the structure of the leaf





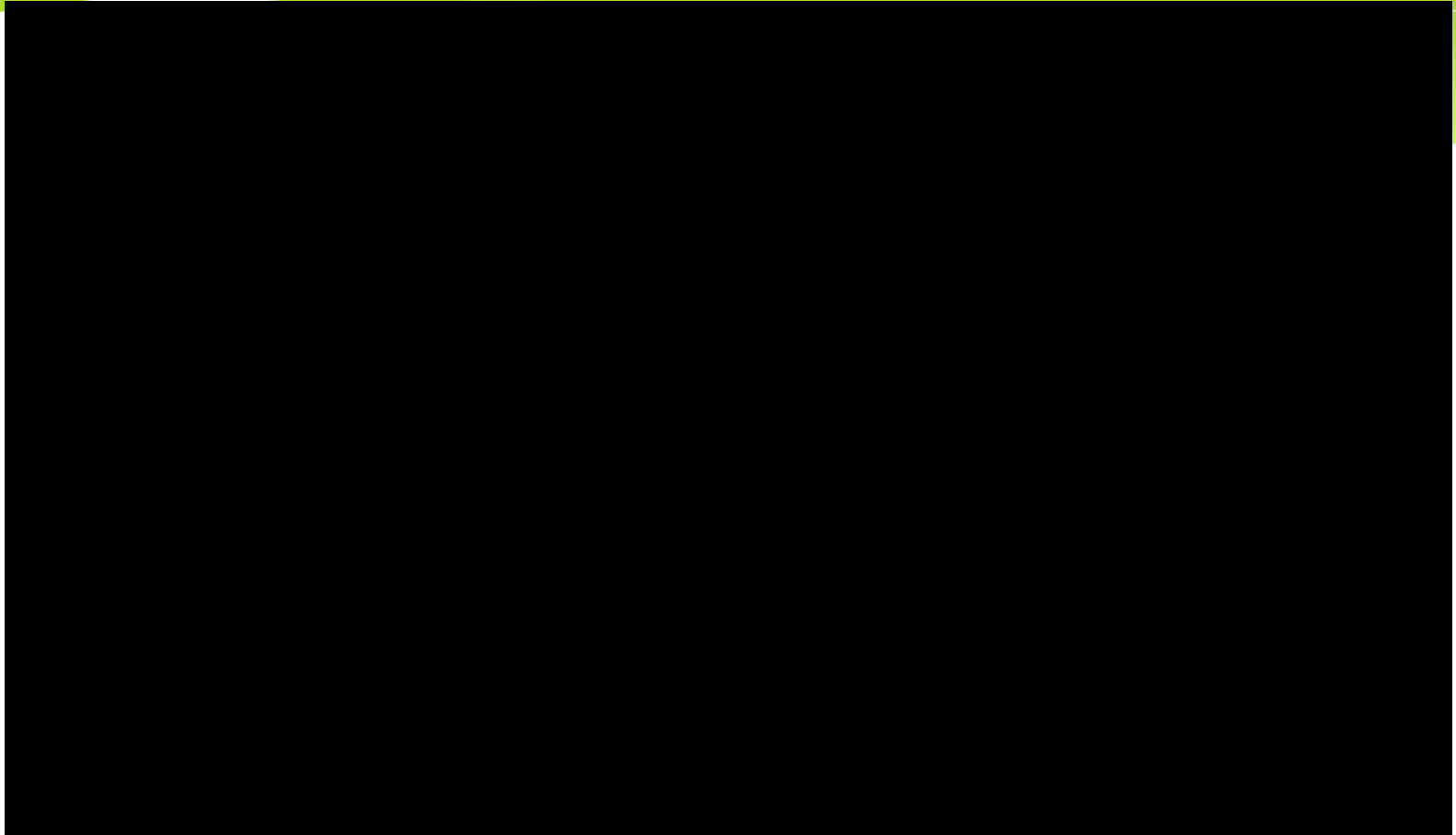
Functions

- * **Apex:** point part of the leaf (not in all types of leaf) helps in dripping excess water during rainfall.
- * **Lamina/blade:** helps in absorbing sunlight
- * **Margin:** gives the shape of the leaf (wavy, serrated, entire)
- * **Mid rib:** vein that runs in the middle
- * **Petiole:** short stem attaches leaf to stem.
- * **Vein:** transport water and food.



Where photosynthesis occurs?

Watch video and write a short paragraph on photosynthesis

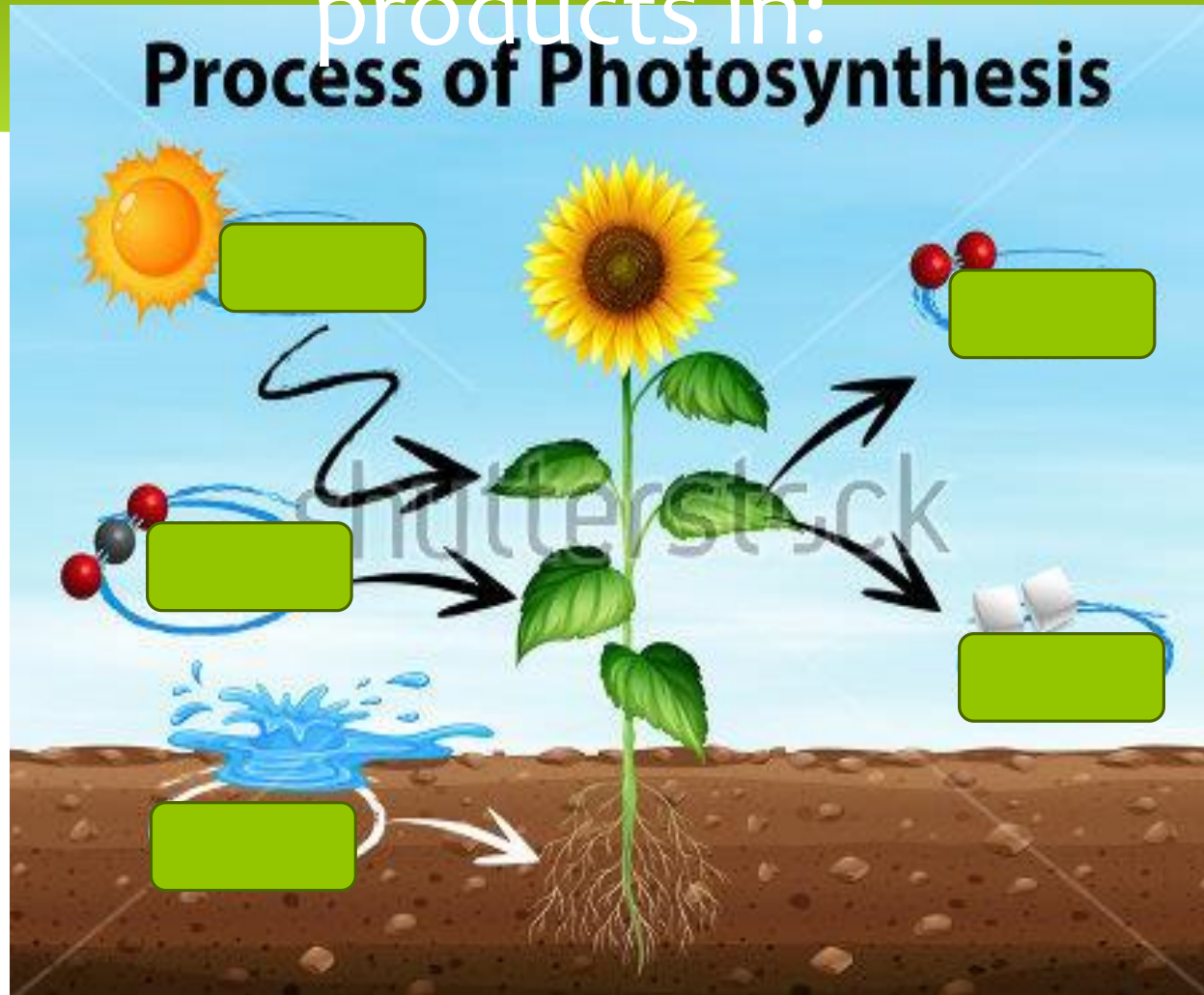


Summary of photosynthesis

- * Photosynthesis Sunlight
 - * Carbon dioxide + water → Food + oxygen
 - * Chlorophyll
-
- * The process of where plants use the carbondioxide excreted by animals combined with water in side the chlorophyll and with the help of the suns energy it makes food (glucose) and excretes oxygen.

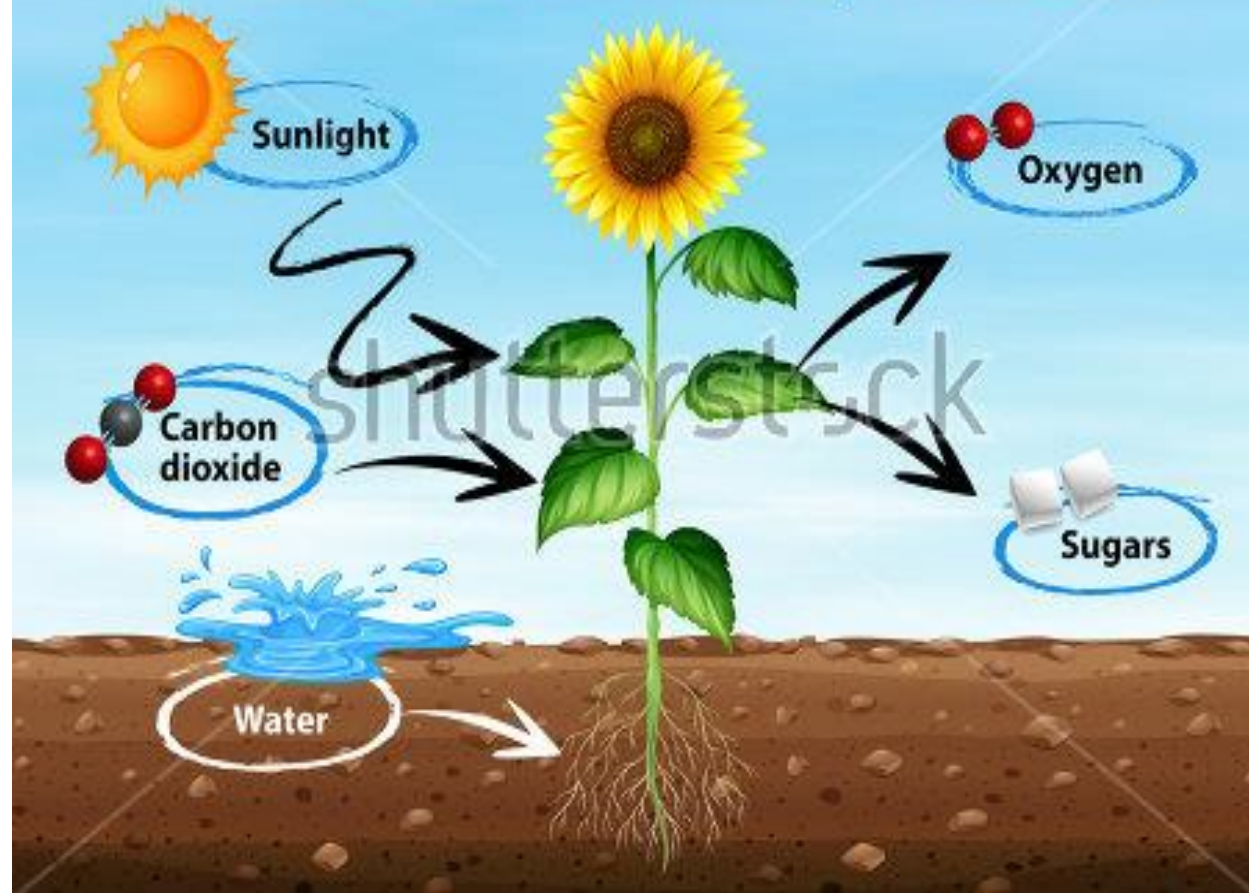
Identify the raw materials and products in:

Process of Photosynthesis



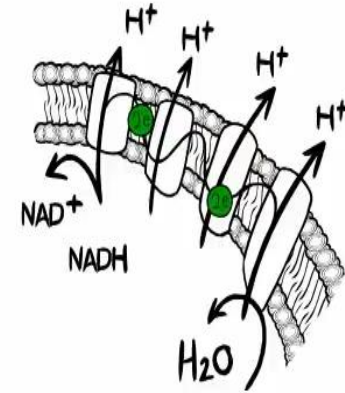
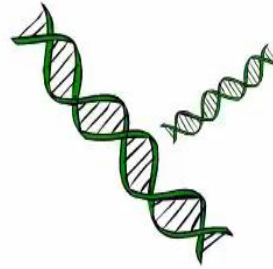
Draw the process

Process of Photosynthesis

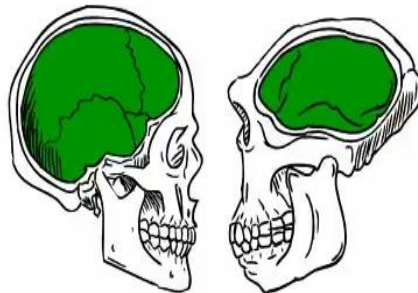
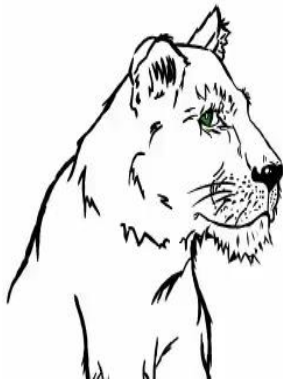


Fill in the spaces for the equation of photosynthesis.

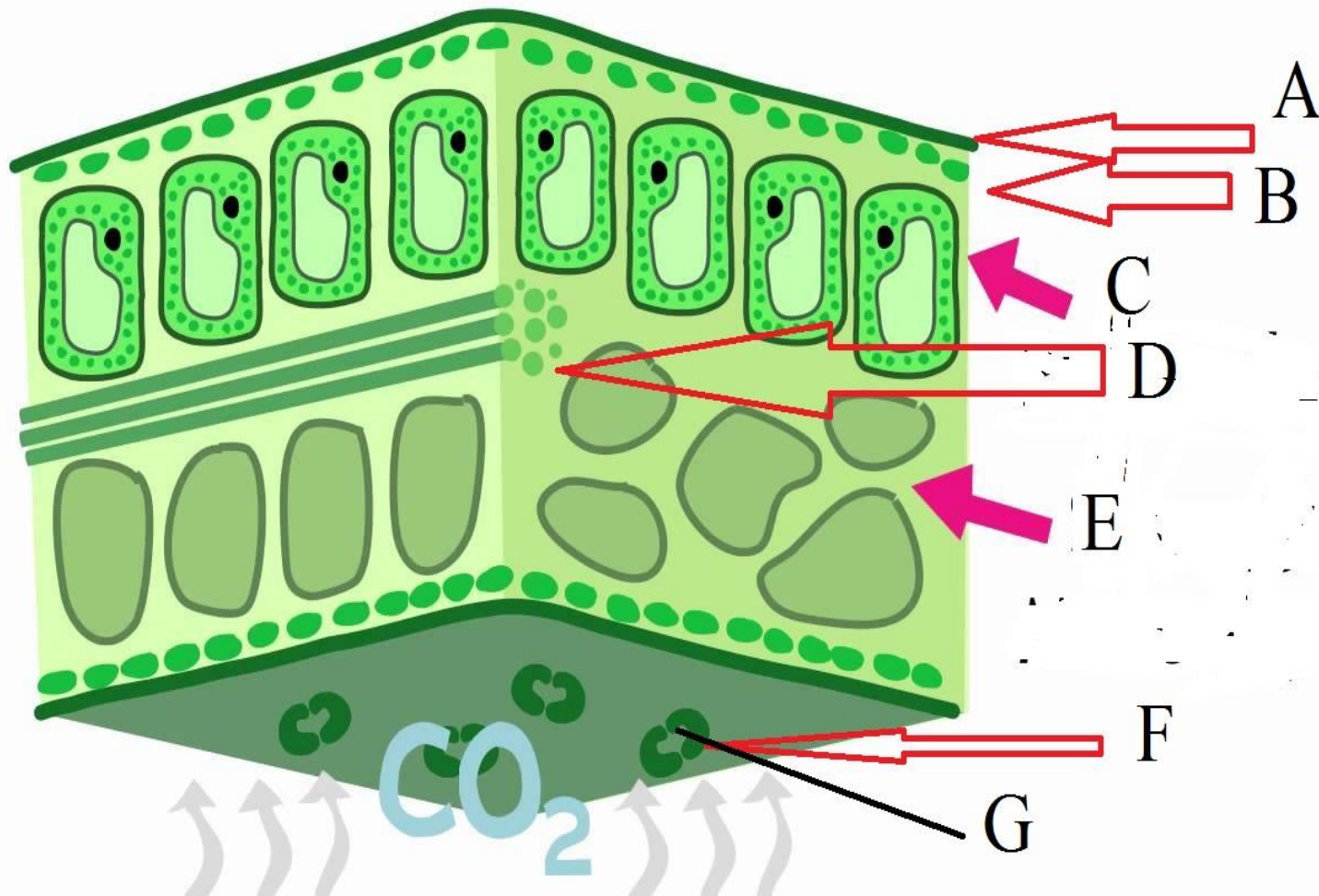


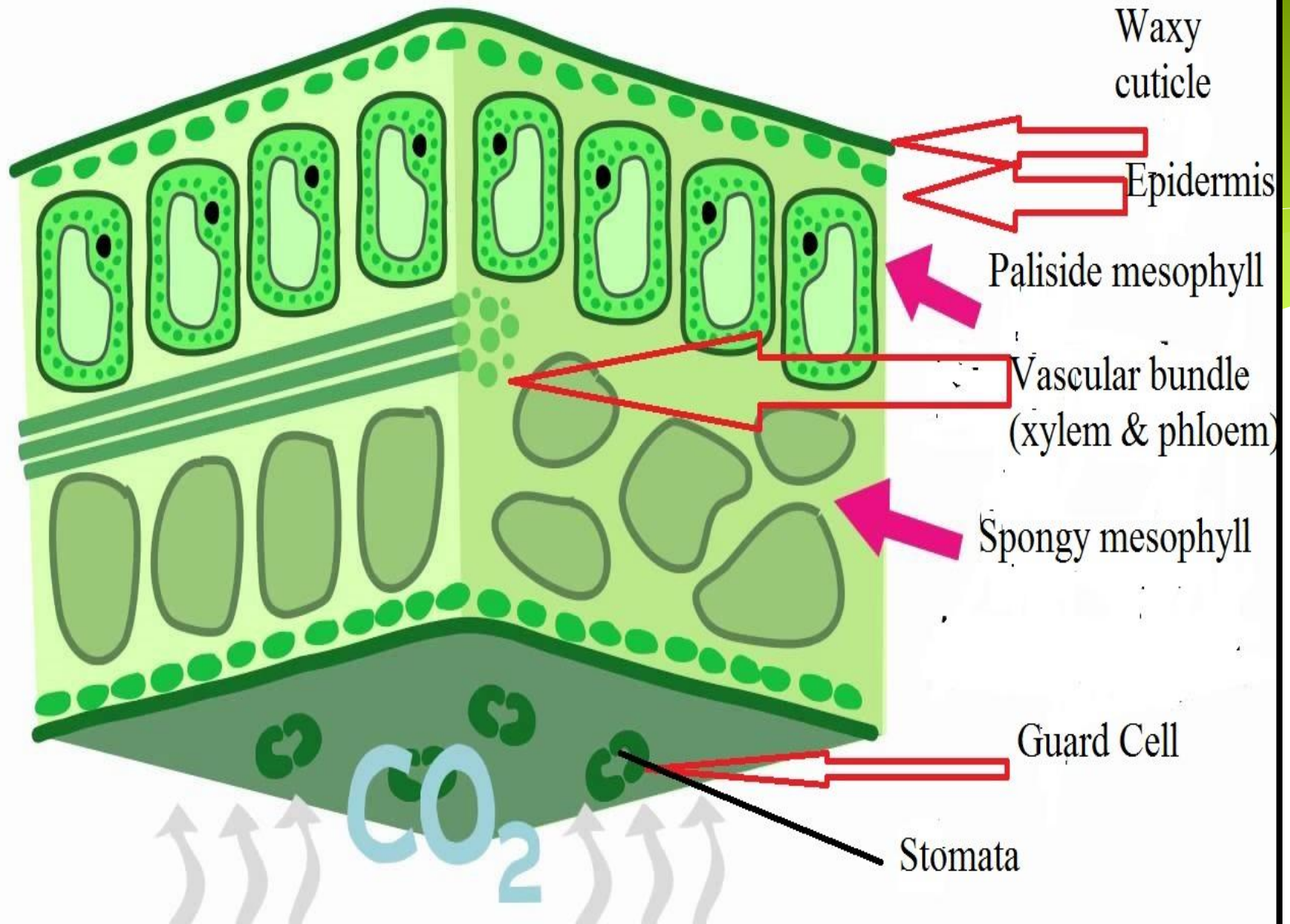


Structure of a Leaf



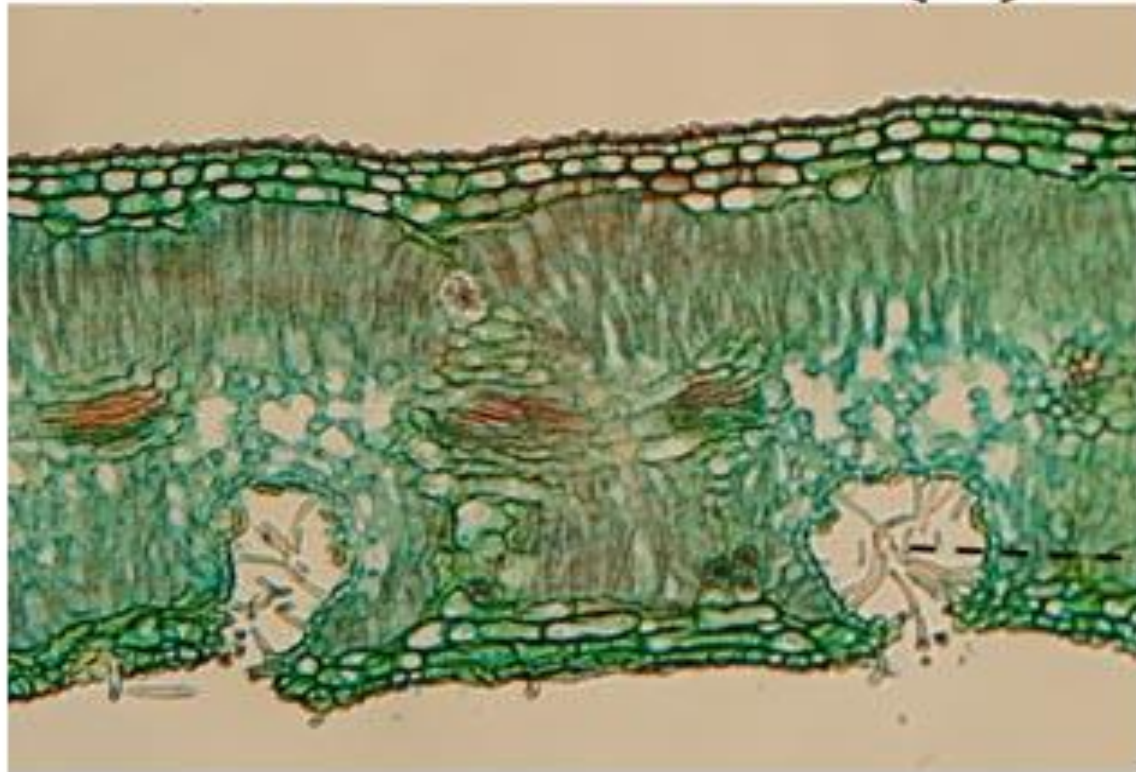
Label the parts





Microscope view

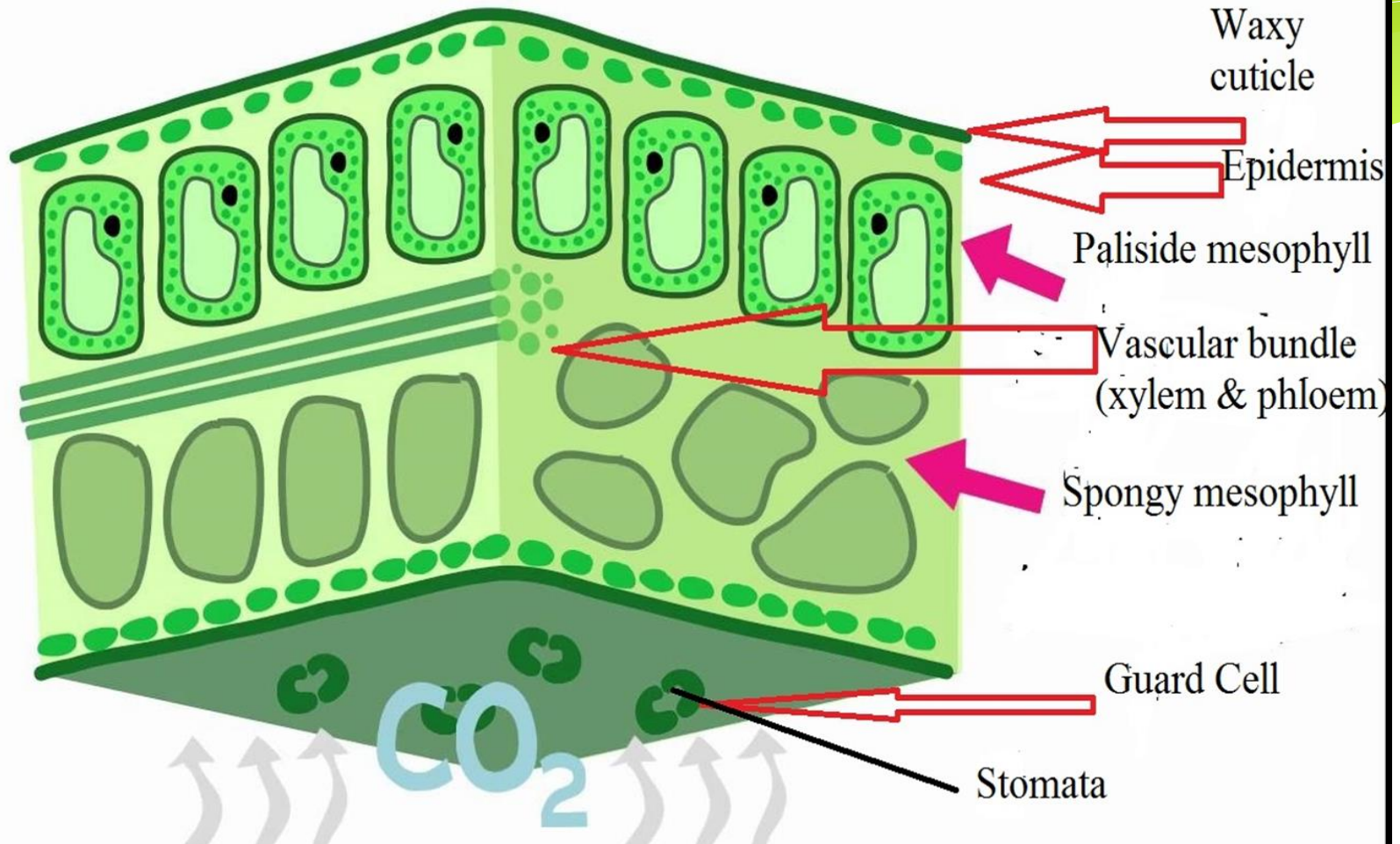
***Nerium* Leaf Cross Section (CS)**



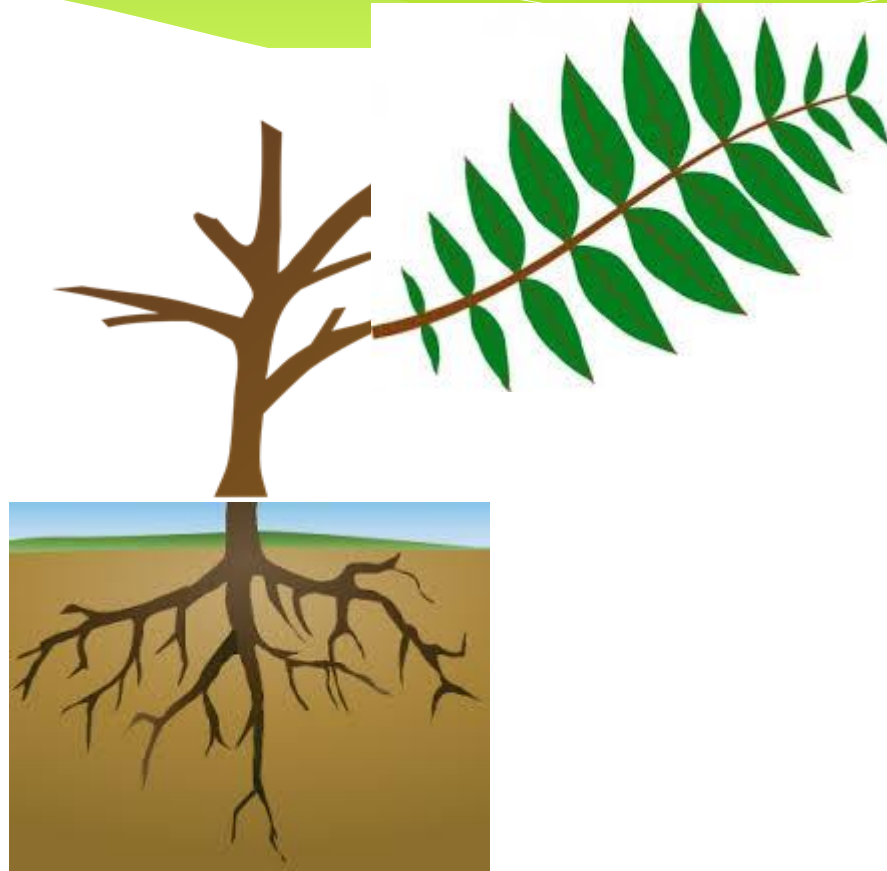
→ **Multilayered Epidermis**

→ **Stomatal Pit with Hairs**

Draw the internal structure of a leaf



Structure of a plant



Identify

Identify the types of Roots.

A.



B.



C



D. What is the function of the Xylem?

E. What is the function of the phloem?

F. What is the difference between how Xylem and Phloem transports substances (Hint: Direction).