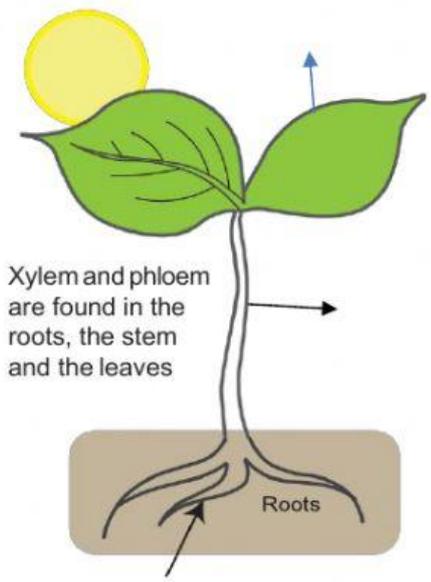
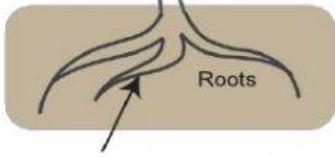


## worksheet - Xylem and Phloem

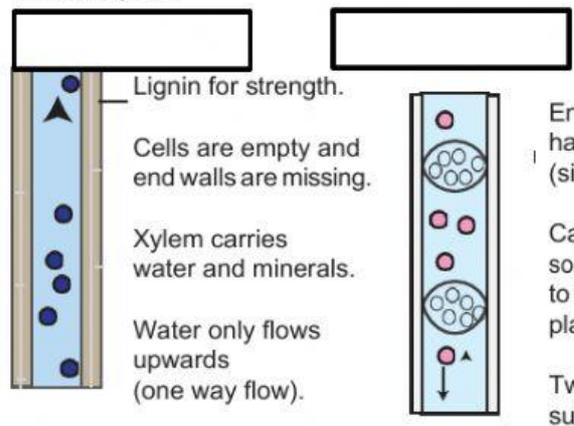


Xylem and phloem are found in the roots, the stem and the leaves



Starch is stored in the root

Xylem and phloem are the tissues that transport substances around a plant.



Lignin for strength.

Cells are empty and end walls are missing.

Xylem carries water and minerals.

Water only flows upwards (one way flow).

End walls of cells have holes in them (sieve plates).

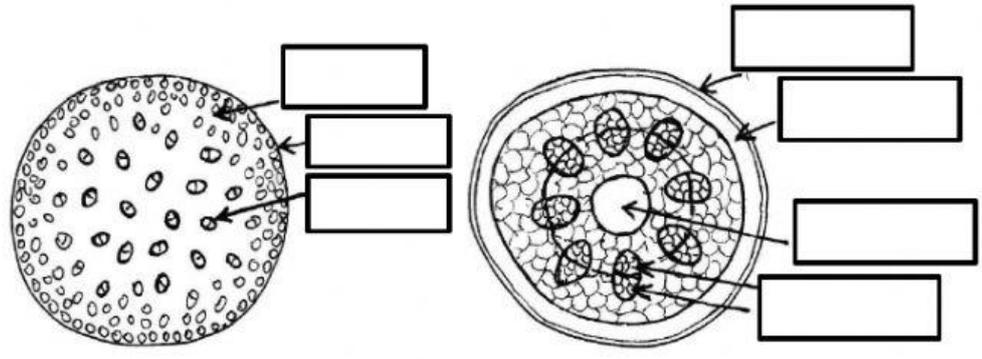
Carries sugar solution (glucose) to all parts of the plant.

Two way flow of sugar solution.

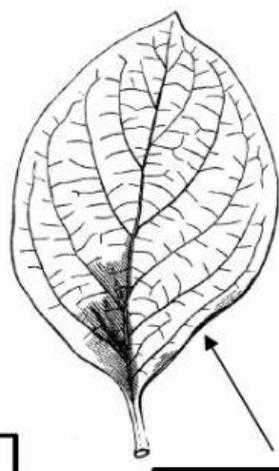
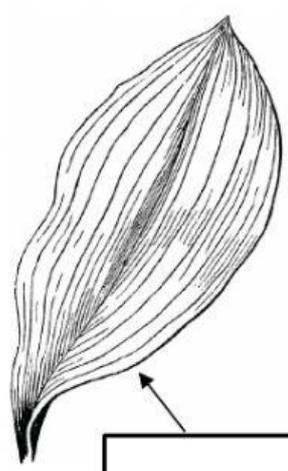
Xylem carries water and minerals upwards in a continuous flow through the root and the stem until it reaches the leaves. It diffuses out of the leaves into the surrounding air. This is called transpiration.



Makes me hungry for chocolate chip cookies!



I like monocots. This leaf is cool!



I like dicots. This leaf is cool!



USE LEAF PATTERNS TO IDENTIFY MONOCOTS AND DICOTS

Look at the patterns on these leaves and guess which are monocots and which are dicots.  
Write "M" for monocot or "D" for dicot. (Remember, monocots have parallel veins.)



corn

—



—



oak  
mint

—



yucca plant

—



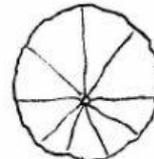
geranium

—



grass

—



orchid

—



nasturtium

—



tulip

—