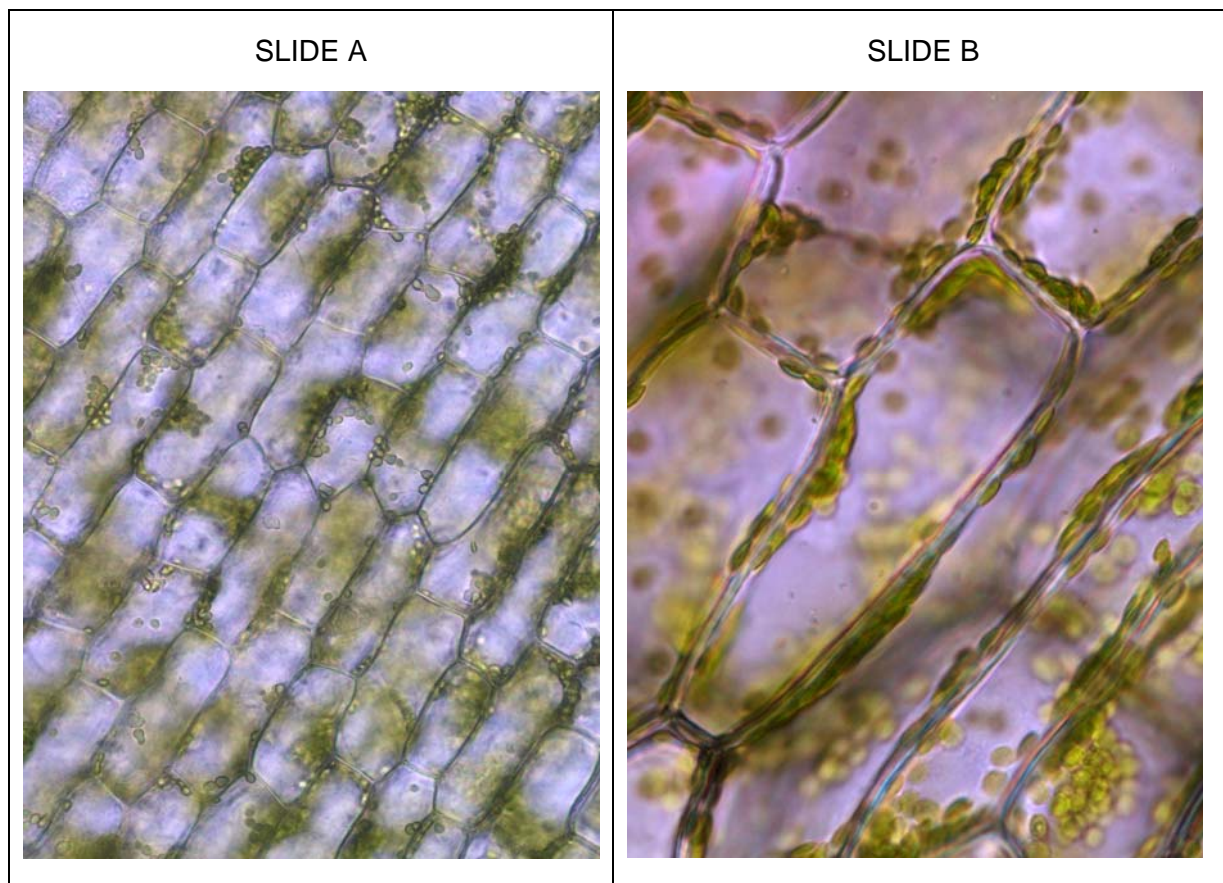


CELLS ONLINE WORKSHEET

TOPIC

ELODEA PLANT

Elodea is a fresh water plant commonly used as vegetation in ponds and freshwater fish tanks. The photographs show *Elodea* leaves viewed under a light microscope at 200x (Slide A) and 600x magnification (Slide B).



Download this page, place in your notebook and answer the following questions.

- Q1: Identify and label the following structures on Slide B: cell wall, vacuole, chloroplast, cytoplasm, and plasma membrane.
- Q2: How many cells (whole or in part) can you see in Slide B?
- Q3: Describe the location of the chloroplasts in the cells. Can you suggest a reason for their particular location?
- Q4: Name three structures in the *Elodea* cells that would be absent in a typical animal cell.

Extension

Try viewing living *Elodea* under the microscope at school. Place a whole *Elodea* leaf on a microscope slide with some water and add a coverslip. If the plant is healthy you should be able to observe the cytoplasm and chloroplasts moving around the edge of the cell next to the plasma membrane and cell wall. This is called **cytoplasmic streaming**.