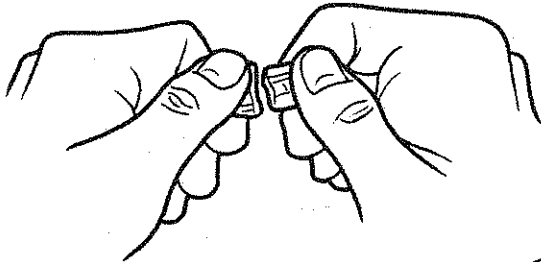
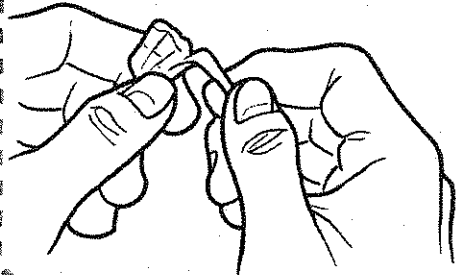


Focus on Cells

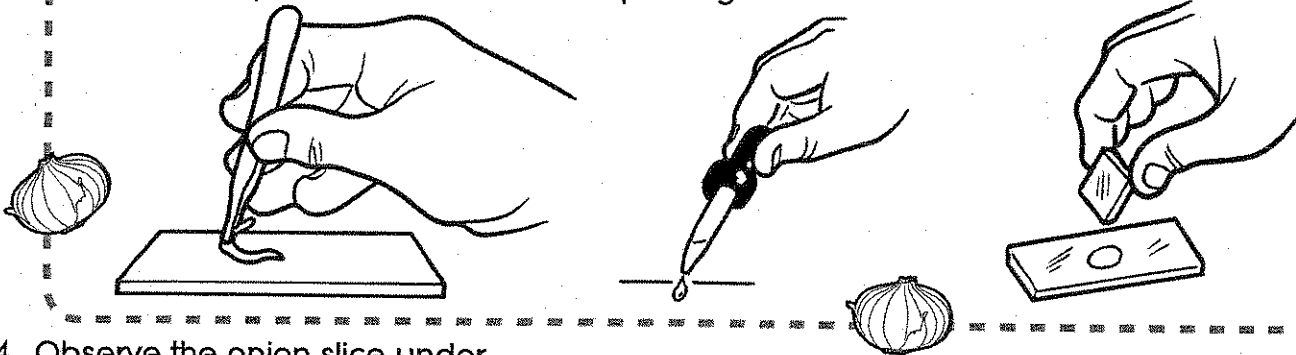
1. Pull the onion slice apart.



2. Pull off a thin piece of skin.



3. Place the onion on the center of the slide. Add a drop of water and then the cover slip. Place on the microscope stage.



4. Observe the onion slice under low power. Draw a few cells and label the cell wall.

5. Switch to high power.

Low Power

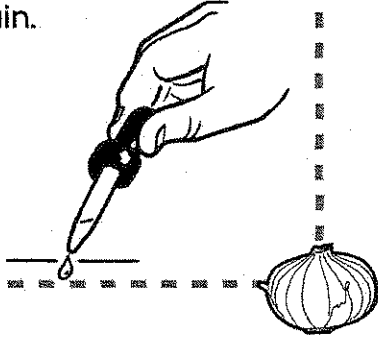
High Power

6. What is the general shape of the cells?

7. Is the skin composed of one or many cells?

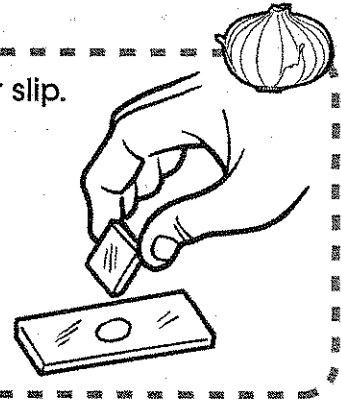
Focus on Cells

1. Lift the cover slip. Add one or two drops of stain.



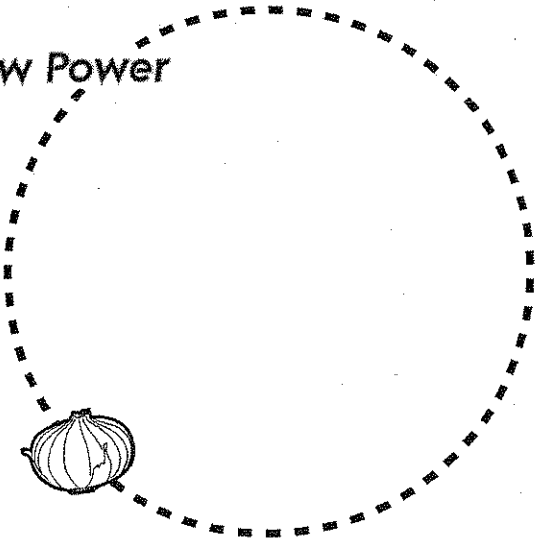
2. Add the cover slip.

3. Why did you add stain to the cells?

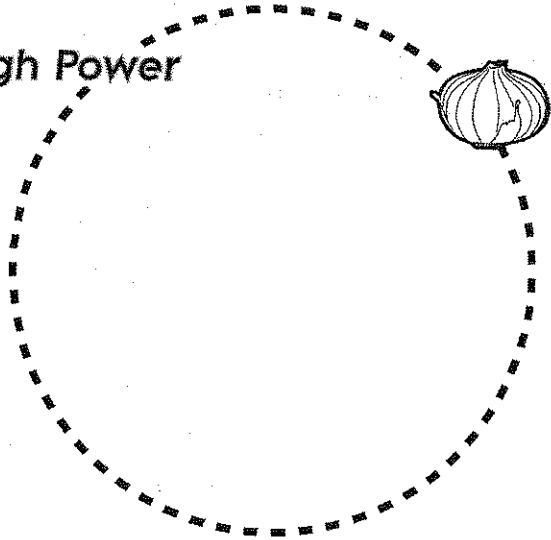


4. Draw the cells under low power and high power. Label the cell wall, cell membrane, cytoplasm, and nucleus.

Low Power

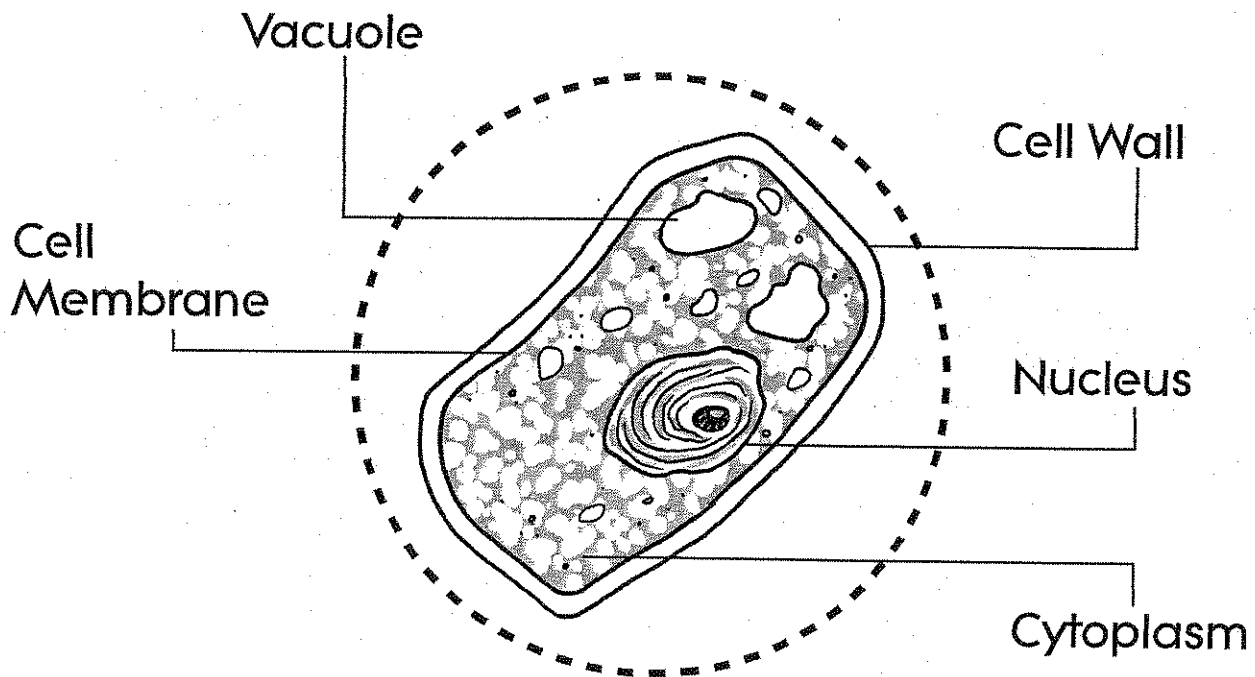


High Power



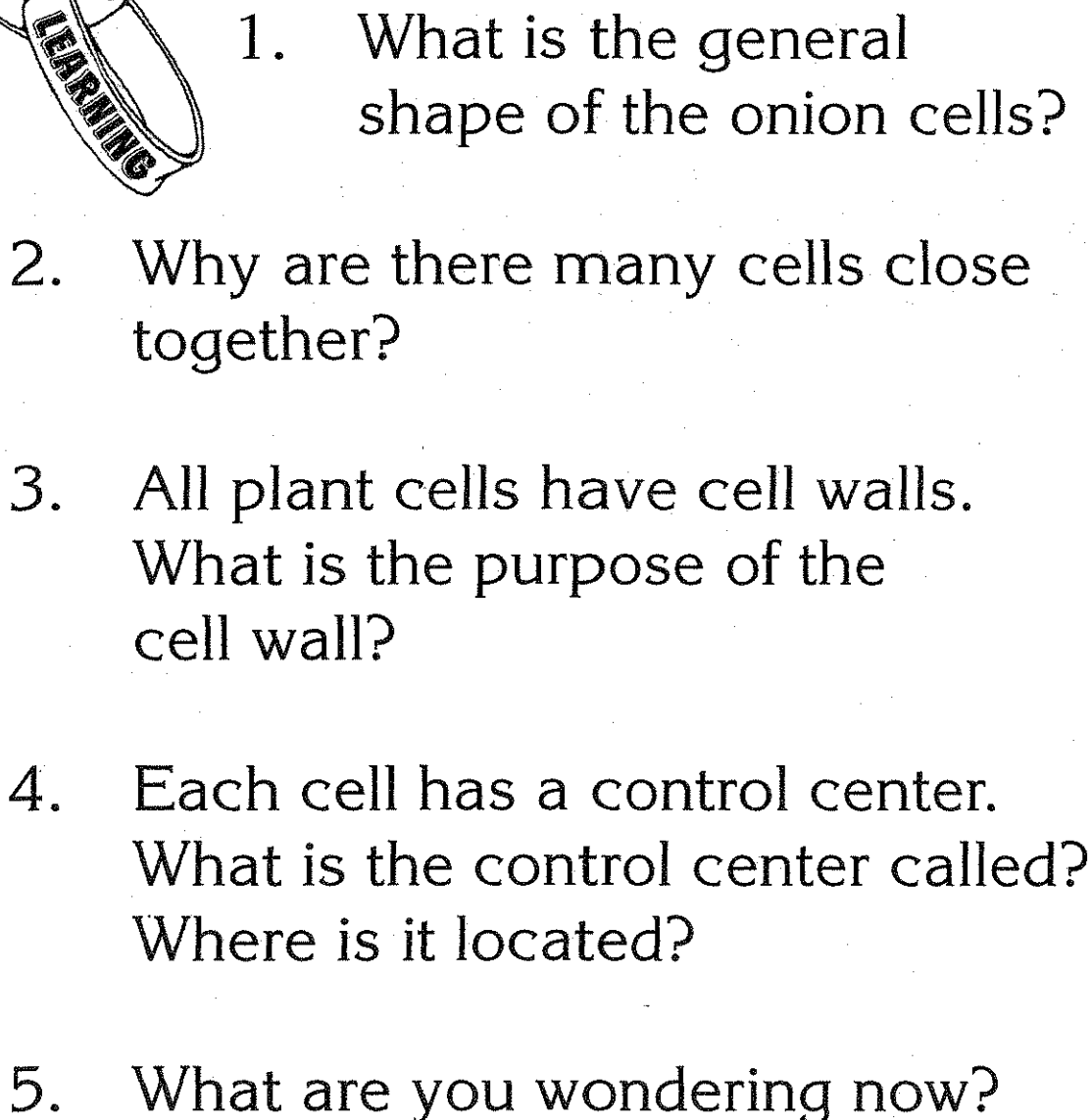
5. Describe the general shape of the cells. Why do you think they have this shape?
6. How many sides does an onion cell have?
7. What geometric shape is similar to the shape of onion cells?
8. What jobs do you think these cells have?

Onion Cell Parts



Focus on Cells

Connecting Learning

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1. What is the general shape of the onion cells?
 2. Why are there many cells close together?
 3. All plant cells have cell walls. What is the purpose of the cell wall?
 4. Each cell has a control center. What is the control center called? Where is it located?
 5. What are you wondering now?