

7.4 Homeostasis and Cells

Lesson Objectives

-  Explain how unicellular organisms maintain homeostasis.
-  Explain how multicellular organisms maintain homeostasis.

BUILD Vocabulary

A. The chart below shows key terms from the lesson with their definitions. Complete the chart by writing a strategy to help you remember the meaning of each term. One has been done for you.

| Term | Definition | How I'm Going to Remember the Meaning |
|--------------|--|---|
| Homeostasis | Relatively constant internal conditions | Homeo- means <i>“the same.” Homeostasis refers to conditions that stay the same.</i> |
| Organ | Group of tissues that work together | |
| Organ system | Group of organs that work together to carry out a specific job | |
| Receptor | Molecule on a cell that responds to a chemical signal | |
| Tissue | Group of similar cells that perform the same job | |

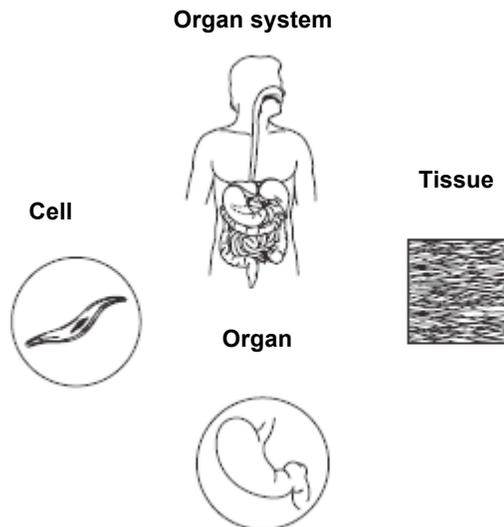
B. As you work through this lesson, you may find these terms in the activities. When you need write a key term or a definition, **highlight** the term or the definition.

Multicellular Life

The levels of organization in a multicellular organism are cells, tissues, organs, and organ systems.

Follow the directions.

1. Draw an arrow from the drawing that shows the least complex level of organization to the next most complex level of organization.
2. Draw an arrow to the next most complex level of organization.
3. Draw an arrow to the most complex level of organization.



BUILD Understanding

Preview Visuals Previewing visuals and taking notes about them can help you remember what you read and review for tests. Visuals include photographs, charts, graphs, and diagrams. Before you read the lesson, look at the visuals listed in the chart. In the left column of the chart, write two questions you have about each visual. As you read, answer your questions in the right column.

| Specialized Animal Cells: Human Trachea Epithelium | |
|--|---------|
| Question 1: | Answer: |
| Question 2: | Answer: |
| Specialized Plant Cells: Pine Pollen | |
| Question 1: | Answer: |
| Question 2: | Answer: |