

Levels of Organization

Activity

Part I: Card Sort

Cut out each individual box on the Levels of Organization table **provided by** your teacher. Arrange the cards to show the correct order of organization using the information on the cards. Once your teacher has checked to make sure your cards are in the correct order, glue them onto a blank sheet in your notebook. Then draw arrows from the simplest unit of life to the most complex unit of life.

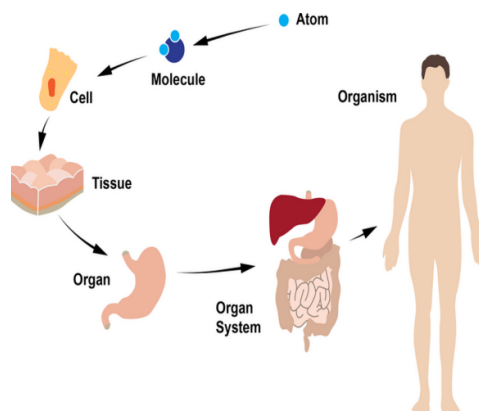
1. What would happen if you removed a level from the levels of organization?

2. What do you observe about the structures that are living versus the structures that are nonliving?

Part II: Flow Chart

All organisms are made up of these same levels of organization, although each organism may contain different structures specific to that organism. Below are the levels of organization specifically for a human. For example, if you are focusing on the digestive system, you would include the stomach, epithelial tissue, epithelial cells, water molecules, and the hydrogen atom; in that order. There are many different flow charts for each system, depending on what organ, tissue, cell, etc. you are focusing on.

Atom → Water molecule → Epithelial cell → Epithelial tissue → Stomach → Digestive system → Human





Levels of Organization

Activity

Part II: Flow Chart, continued

Now it is your turn. With your partner, choose a system from the Organ System List from your teacher to research. Based on the organ system you chose, pick an organ that makes up that system, a tissue that makes up that organ, and so on, until you have identified an atom from that organism. (You do not need to identify a macromolecule and an organelle). Write out all the levels of organization for your system and then illustrate it, like the example on the previous page. Also include the function of your organ system.

1. Levels of organization:

_____ → _____ → _____ → _____ → _____ → _____ → _____

2. Illustration:

3. What is the function of your organ system? Be as specific as you can.

