

Questions p. 57.

1a. Structure is what an object or organism is made of and how its parts are put together. A function is a process that enables an organism to stay alive and reproduce.

1b. Cells form the parts of an organism and carry out all of its functions.

1c. Sight.

2a. Microscopes make it possible for people to ~~describe~~ discover and learn about tiny things, such as cells.

2b. Hooke saw that the cork was made up of many tiny, rectangular spaces, which he called cells.

2c. The human eye is not able to see such small structures.

3a. All living things are made up of cells, which are the basic units of structure and function in living things. Cells come from other cells.

3b. Virchow proposed that cells are produced from other cells.

3c. Plastic plants and stuffed animals are not made up of cells. Their parts do not produce similar parts in the same way that cells produce other cells. Instead, the parts of plastic plants and stuffed animals are human-made.

4a. Magnification is the process of making things look larger than they are.

4b. Light microscopes use lenses to bend light rays to magnify objects, while electron microscopes use a beam of electrons.