

What is the role of the cell wall in plant cells?
The cell wall is a rigid structure that surrounds the cell. It is made of cellulose, a complex carbohydrate. The cell wall provides structural support and protection for the cell. It also plays a role in the cell's ability to take up water and nutrients from the soil.

What is the function of the chloroplast?
The chloroplast is the organelle responsible for photosynthesis. It contains chlorophyll, a green pigment that captures light energy. The chloroplast uses this energy to convert carbon dioxide and water into glucose and oxygen.

What is the function of the mitochondrion?
The mitochondrion is the organelle responsible for cellular respiration. It is the site where glucose is broken down into carbon dioxide and water, releasing energy in the form of ATP.

What is the function of the nucleus?
The nucleus is the control center of the cell. It contains the cell's genetic material, DNA, which is organized into chromosomes. The nucleus directs the cell's growth, development, and reproduction.

1. What is the function of the cell wall? _____

2. What is the function of the chloroplast? _____

3. What is the function of the mitochondrion? _____

4. What is the function of the nucleus? _____