

02.03 Biology Notebook: Cell Structure and Function

Page 1: The Cell

What is the basic unit of living things?

Key Terms: Jot down terms and definitions that are new to you. You will see them used in the lesson.

Page 2: The Cell Theory

Define organelle.

Which organisms have eukaryotic cells?

What is the difference between plant and animal cells?

Page 3: The Anatomy of the Cell

Organelles: Describe the structures and functions of the following organelles

Structure	Function
Cell Membrane	
Nucleus	
Cytoplasm/Cytoskeleton	
Ribosomes	
Rough Endoplasmic Reticulum	
Smooth Endoplasmic Reticulum	
Golgi Apparatus	
Lysosomes	
Vacuoles	
Mitochondria	
Cell Wall	
Chloroplasts	

Draw a plant cell, including organelles

Draw an animal cell, including organelles

Page 4: It's a Cell Farm

Use the interactive about the cell analogy to fill out the table below.

Cell Organelle	Farm Analogy	Function
Nucleus		
Cell Membrane		
Cytoplasm		
Nucleolus		
Ribosomes		
Mitochondrion		
Endoplasmic Reticulum		
Golgi Apparatus		
Lysosome		
Vacuole		
Chloroplast		

Practice question:

Which organelle is found in the plant cell, but not in the animal cell?

- A. Cell membrane
- B. Endoplasmic reticulum
- C. Chloroplast
- D. Mitochondria