

# BIOLOGY UNIT 1 REVISION

## CHAPTER 2

### Features of Cell Theory

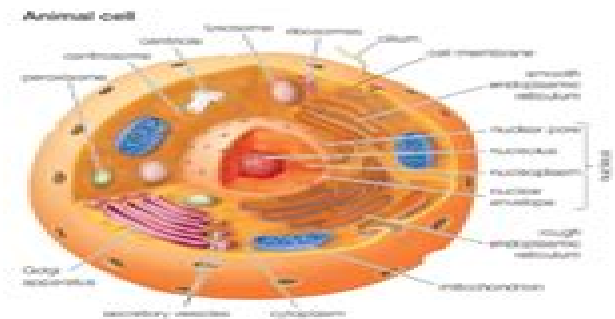
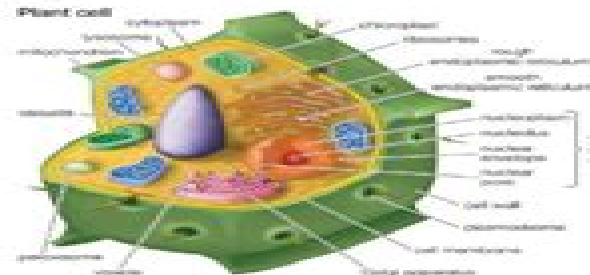
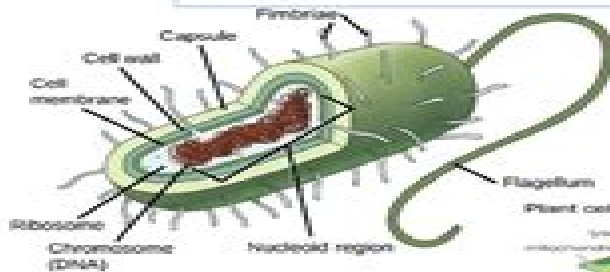
1. All organisms are composed of cells
2. Cells are the smallest organisational units
3. All cells come from pre-existing cells

### Common Cell features

1. **Plasma Membrane:** separates the interior of the cell from the outside environment
2. **Cytoplasm:** consists of the cytosol which is a gel-like substance. More than 80% water and contains ions, salts and organic molecules
3. **DNA:** directs the cells activity and is passed from generation to generation
4. **Ribosomes:** Organelles responsible for the synthesis of proteins

### Prokaryotes and Eukaryotes

Prokaryotes	Eukaryotes
Do NOT have a membrane bound nucleus or any other membrane bound organelles.	Have a membrane-bound nucleus and other membrane bound organelles
Usually unicellular organisms	May be unicellular or part of a multicellular Organism
Less complex than eukaryotic cells	More complex, variety of internal membranous structures (organelles)
E.g. Bacteria cells	E.g. plant and animal cells / fungal cells & protists



# Biology Unit 2 Chapter 1

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Burggren**



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