

# Biology: Preliminary

## Module 1: Cells the Basis of Life

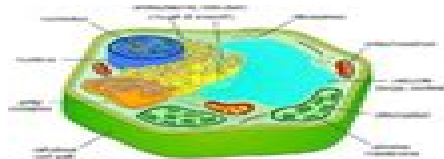
Inquiry question: What distinguishes one cell from another?

### 1. CELL

#### Cell Theory:

*All cells are the basic theory of the structure and functional units of life formed by pre-existing cells by cell division.*

1. All things are made of cells
2. The cell is the smallest unit of life
3. All new cells come from preexisting cells



#### Types of Cells

**Eukaryotic cells - Size 10 - 100mm**

- Are more complex and contain an array of membrane bound organelles
- Membrane bound nucleus
- Paired chromosomes
- Could be single celled or multi celled

**Prokaryotic cells - 2.5mm**

- Are more simple, and do not have membrane bound organelles
- No nucleus
- Bacteria
- Only unicellular



#### Bacteria

- Exists only as unicellular organism
- Some photosynthesis or chemosynthesis; others absorb it from outside cell
- Contain a cell wall
- Bacteria and cyanobacteria e.g. E. coli, staphylococcus

#### Archaea

- Only exists as unicellular and reproduce by asexual reproduction
- Prokaryotic and have cell wall

#### Fungi

- Exists mostly as multicellular organisms and reproduce sexually or asexually
- Absorb food from their surrounding

# Preliminary Biology Revision Questions

**Xiang Xie**



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