

### Mitosis Stages

Interphase    Prophase    Metaphase  
Anaphase    Telophase    Cytokinesis

Interphase and Cytokinesis aren't "included" but should be remembered.

### A Cell Consists of 3 Main Parts

Cell Membrane

Cytoplasm

Nucleus

### Cell Theory

All living things are made up of cells.

What an organism can do, depends on what its cells can do.

Cellular composition determines what cells can do.

All cells come from pre-existing cells.

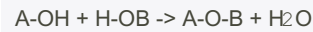
### Anabolism

Build up or synthesize larger molecules from smaller ones.

Requires energy.

Provides biochemicals needed for growth and repair.

Occur by *dehydration synthesis*, removing a molecule of water to join two smaller molecules.



### Prokaryotes and Eukaryotes

Prokaryotes	Eukaryotes
Membrane bound nucleus is absent	Membrane bound nucleus is present
Organelles are absent	Organelles are present
Reproduction by binary fission	Reproduction by mitosis
Example is bacteria	Example: humans, trees, animals

### Levels of Organization in the Body

Tissue    group of similar cells that perform a specialized function

Organ    Structure consisting of a group of tissues with a specialized function

Organ System    Group of organs coordinated to carry out specialized functions.

Organism    Living Thing



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