

Mitosis Stages	Anabolism	Levels of Organization in the Body										
Interphase Prophase Metaphase Anaphase Telophase Cytokinesis	Build up or synthesize larger molecules from smaller ones. Requires energy. Provides biochemicals needed for growth and repair. Occur by <i>dehydration synthesis</i> , removing a molecule of water to join two smaller molecules. $A-OH + H-OB \rightarrow A-O-B + H_2O$	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										
Interphase and Cytokinesis aren't "included" but should be remembered.												
A Cell Consists of 3 Main Parts	Prokaryotes and Eukaryotes											
Cell Membrane Cytoplasm Nucleus	<table border="1"> <thead> <tr> <th>Prokaryotes</th> <th>Eukaryotes</th> </tr> </thead> <tbody> <tr> <td>Membrane bound nucleus is absent</td> <td>Membrane bound nucleus is present</td> </tr> <tr> <td>Organelles are absent</td> <td>Organelles are present</td> </tr> <tr> <td>Reproduction by binary fission</td> <td>Reproduction by mitosis</td> </tr> <tr> <td>Example is bacteria</td> <td>Example: humans, trees, animals</td> </tr> </tbody> </table>	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	
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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.												



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