

# Chapter 1

## 1.1 - Introduction to Cell Biology

<p>What is cell theory?</p>	<ul style="list-style-type: none"> <li>- Cells are the fundamental building blocks of all living organisms</li> <li>- Cells are the basic units of life</li> <li>- Cells are derived from other cells (by cell division)</li> </ul>
<p>Explain the three types of cell division.</p>	<ol style="list-style-type: none"> <li>1. <b>Mitosis</b> - two identical daughter cells, occurs in ALL body cells. Allows for growth and asexual reproduction in unicellular organisms.</li> <li>2. <b>Meiosis</b> - four unique daughter cells with ½ DNA and results in sex cells. Allows for sexual reproduction in most multicellular organisms.</li> <li>3. <b>Binary fission</b> - allows for reproduction in prokaryotes/bacteria cells</li> </ol>
<p>What are the eight functions of life?</p>	<p><b>GHRIMMEN</b>  <b>G:</b> Growth  <b>H:</b> Homeostasis  <b>R:</b> Reproduction  <b>I:</b> Irritability/response  <b>M:</b> Movement  <b>M:</b> Metabolism  <b>E:</b> Excretion  <b>N:</b> Nutrition</p>
<p>Apply the eight functions of life to paramecium</p>	<p><b>Growth</b> - increases in size, cytoplasm, # of organelles until cell division  <b>Homeostasis</b> - contains contractile vacuoles which regulate water; maintains internal environment through diffusion across the plasma membrane  <b>Reproduction</b> - asexual, binary fission  <b>Irritability/response</b> - cilia wave and propel cell in reaction to the environment  <b>Movement</b> - cilia propels cell around, cytoplasm flows through cell  <b>Metabolism</b> - aerobic cellular respiration in</p>

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