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## Chap 8.1 - Life is Cellular

Questions:	-
Questions.	The Discovery of the Cell
	The first microscopes were made in the by eyeglass makers in
	Robert Hooke looked at slices of in 1665. He called these
	A de la casa de la cas
	Anton van Leeuwenhoek was the first to observe
	microorganisms in water.
	<ul> <li>By the mid, scientists had discovered that living things are made of</li> </ul>
	The Cell Theory
	1 living things are made up of
	2. Cells are the units of structure and function in
	things.
	3 cells are produced from cells.
	Exploring the Cell
	Most microscopes use to the image of an
	object by focusing light or electrons.
	Light Microscopes
	Electron Microscopes: types of electron microscopes:
	<ul> <li>Transmission - Samples must be into thin slices to be</li> </ul>
	viewed, which means the samples are viewed
	dimensionally.
	<ul> <li>Scanning - Samples can be vieweddimensionally.</li> </ul>
	<ul> <li>For both types of EM microscopes, samples be</li> </ul>
	living. In light microscopes, samples be living.
	Micrographs: A micrograph is a of an object seen
	a microscope.

Questions:	Cell Size - Certain	of measurement are used f	or objects,
	such as cells.		
	<ul><li>The human</li></ul>	can see objects	_ than about 0.5mm
	0 1 nm 1 μm		Chicken egg
	ELECTRON MICROSCOPE	LIGHT MICROSCOPE	
	<b>↑</b>		IAIDED HUMAN EYE
	Prokaryotes and Eukary		
	• cells are a cell membrane • The nucleus is a	Cell Membrane e surrounded by a flexible	ecalled
	Prokaryotes		
	<ul> <li>Cells that do</li> </ul>	enclose their ma and	terial within a nucleus.
	Eukaryotes		
	<ul><li>Cells that</li><li>Generally</li></ul>	enclose their genetic material wi and more membrane-bound organelles cells, animal cells	
Summary:			
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