

Main Topic: Cell Structures

Learning Objectives/Outcomes: describe the structures and functions of cell organelles.

Topic 1: plasma membrane	Topic 2: cytoplasm	Topic 3: organelles
<p><u>Ideas</u></p> <p>Where is the plasma membrane located?</p> <p>Describe plasma membrane.</p> <p>Describe the function of plasma membrane within the cell.</p> <p>How do plasma membranes work?</p>	<p><u>Ideas</u></p> <p>What is cytoplasm?</p> <p>What does cytoplasm consist of?</p> <p>What is cytosol?</p> <p>What is cytoskeleton?</p>	<p><u>Ideas</u></p> <p>What is an organelle?</p> <p>Describe a cell nucleus.</p> <p>What is the function of the nucleus?</p> <p>What is found inside the nucleus?</p>

<p>What is the plasma membrane made up of?</p> <p>What does it mean to be hydrophilic?</p> <p>What does it mean to be hydrophobic?</p>	<p>List 3 functions of the cytosol and cytoskeleton.</p> <p>What are organelles?</p>	<p>What is chromatin?</p> <p>What surrounds the nucleus?</p> <p>Describe the function of the nucleolus in the nucleus.</p> <p>Describe the function of ribosomes.</p> <p>Describe endoplasmic reticulum.</p>
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What are the two types of endoplasmic reticulum?

What is the function of smooth ER?

What is the function of rough ER?

What is the Golgi apparatus?

		<p>What is the role of vesicles?</p> <p>What is the function of mitochondria?</p> <p>What is the function of lysosomes?</p>
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<u>Key Vocabulary</u>	<u>Key Vocabulary</u>	<u>Key Vocabulary</u>
plasma membrane	Cytoplasm	nucleus
phospholipid bilayer	Cytosol	chromatin
hydrophilic	cytoskeleton	nuclear envelope
hydrophobic	organelles	nucleolus
		ribosome
		endoplasmic reticulum
		smooth ER
		rough ER
		Golgi apparatus
		Vesicle
		Mitochondria

		lysosome
<u>Pictures</u>	<u>Pictures</u>	<u>Pictures</u>