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PROKARYOTIC AND EUKARYOTIC CELLS

What Do You Know?
Compare prokaryotic cells and eukaryotic cells. Read the list of cell characteristics in the box below. Write each characteristic in the correct place on the Venn diagram.

Characteristics of Cells

| | |
|---|--|
| • contain a nucleus | • are bacteria and archaea |
| • undergo metabolism | • contain membrane-bound organelles |
| • contain DNA | • are found in all multicellular organisms |
| • are usually smaller than 10 micrometers | • contain chloroplasts |
| • are found in fungi | |
| • may contain a cell wall | |
| • reproduce | |

Prokaryotic Cells Eukaryotic Cells



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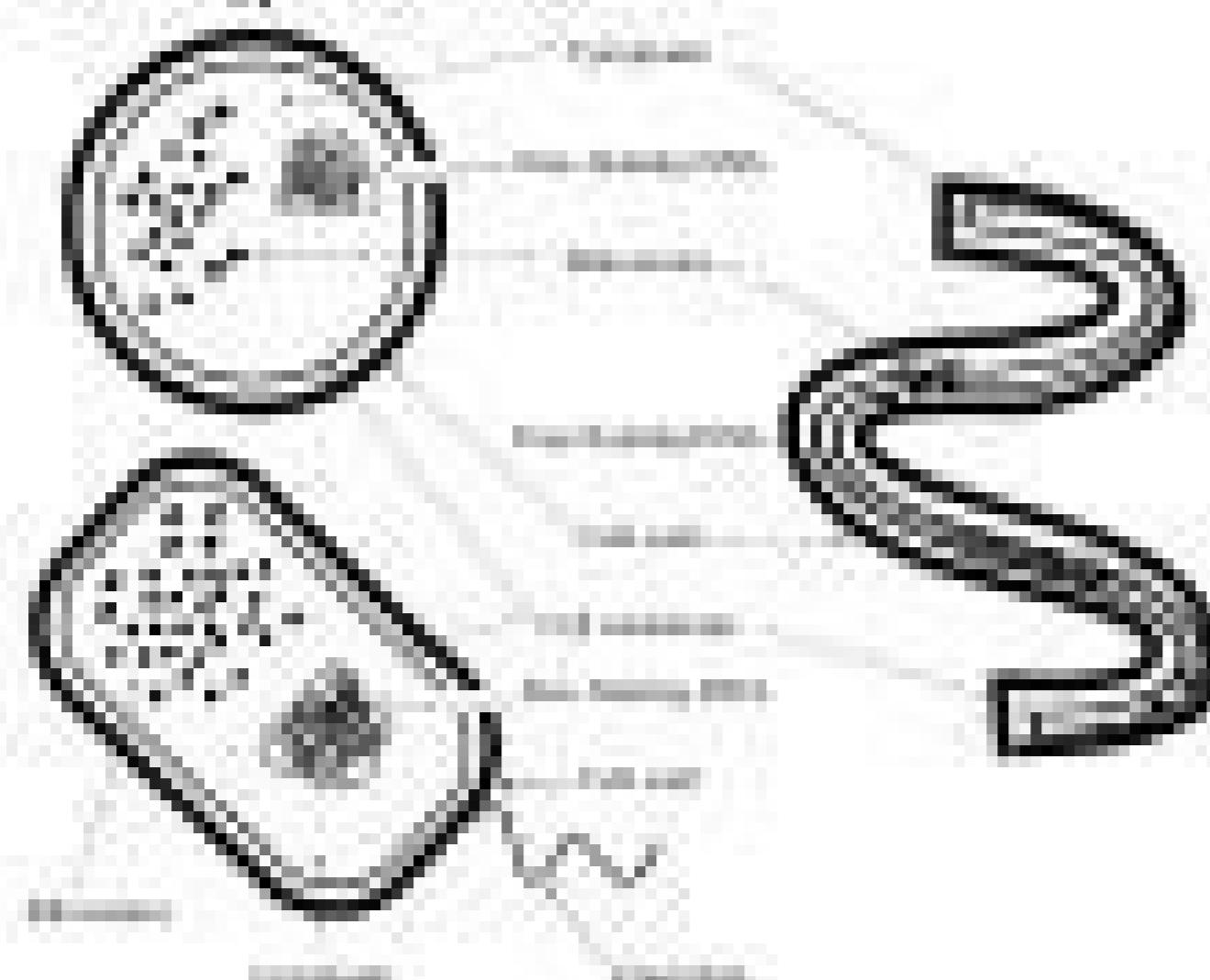
Prokaryotic and Eukaryotic Cells

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Vocabulary

A cell theory statement is given below. If the statement is about a prokaryotic or eukaryotic cell, place it in the appropriate Venn diagram. If it is ambiguous, place it in the overlapping area. A cell theory statement is a complex way of living in a limited space of a maximum size, incapable living space with many different structures. These structures are necessary, using, changing, changing, changing, having, having the maintaining parts, containing, maintaining, etc., etc. This statement is ambiguous enough to fit in either space. Change your choice if you feel like it or no other choice. You can use multiple answers, or change your answer after the self-checking or both. You can also make a new choice if you feel like it or no other choice.

Model 1 – Three Types of Bacterial Cells:



1. The three bacterial shapes in Model 1 are common to all eukaryotic organisms and prokaryotes. Label this diagram or Model 1 with the correct classification.

Questions to ask before reading: Questions to ask after reading:

1. What is representative behavior in most bacteria of the three cells?

Directions:

1. Which is the name of the outermost layer that forms a boundary around nearly all cells with?

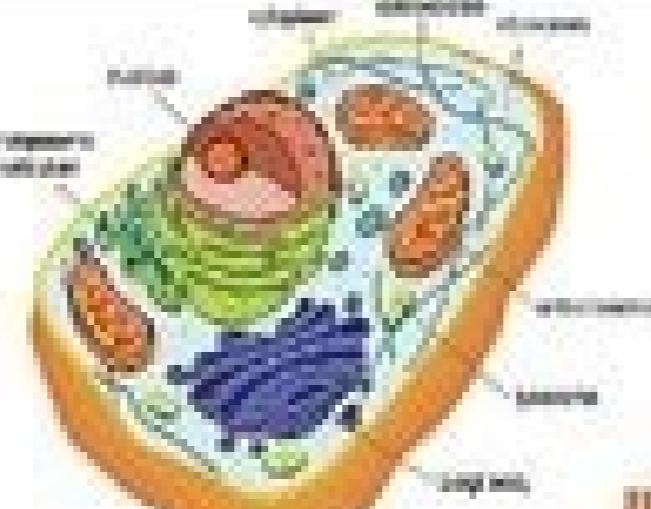
Final Test:

1. Many bacteria have a capsule and some do not have one.

What is described as a prokaryotic, bacteria cell contains many organelles. The eukaryotic bacteria cell contains no organelles at all.

Prokaryotic and Eukaryotic Cells

All organisms (living things) have at least one or more cell. Cells in our world come in two basic types, **prokaryotic** and **eukaryotic**.

| | Prokaryotic | Eukaryotic |
|--|--|--|
| Memory: | before a nucleus | possessing a true nucleus |
| Nucleus: (a protective compartment for DNA) | Have no nuclei | Have a true nuclei at the center, bound by a double membrane |
| Organelles: (little cell parts) | No membrane to protect organelles | Protected by membranes and so we call them membrane-bound organelles |
| Type of Cell: | All bacteria | Plant cell, animal cell, fungi, and protists |
| Cell Membrane/W's II: | Has a cell wall | Some have cell wall (plant/fungi cells) Some do not have a cell wall, only a cell membrane (animal cells) |
| Size DNA: | Smaller | Much larger and more complex |
| | Circular (has no end) | Linear |
| Evolution: | The first organisms on earth, appearing about 3.5 billion years ago, according to prokaryote fossils | Evolved from prokaryotes |
| Image: |  |  |

Organelles in Eukaryotic Cells

Below is the diagram of a plant cell organelles.

Why?

ED will be asked what organelles does it not have? Responses will be limited due to previous knowledge students will have on animal cells. As noted this will allow students to assess if they know the differences between the two.

Model 1 - How is a Cell Like a Factory?

| Part of Cell | Function | Purpose |
|----------------------------------|--|---|
| Centriole (2) | Mitosis | Control and coordinate division of cells |
| Ribosome | Protein synthesis place | Manufacturing proteins |
| Nucleolus (one) | Proteins | Manufacture RNA |
| Endoplasmic reticulum (ER) | Protein transport, modification, & folding | Transport and制造 proteins and other folding molecules etc. |
| Golgi body | Proteins | Process proteins |
| Microtubules (MT) | Microtubules | Microtubule assembly |
| Huntington's disease (HD) | Huntington's | Causes Huntington's disease |
| Chloroplast | Chlorophyll | Photosynthesis |
| Root hair | Root hair | Point of attachment to soil |
| Root to be dropped | Roots | Collects water, oxygen and minerals for plant |
| Wardian case (storage of plants) | Wardian | Temporary storage for water, nutrients, light, air |
| Leaving port | Leaving port | Point of entry and exit for materials |
| Supply house (SH) | Supply house | Producing paper products |

Answers to Eukaryotic Cells

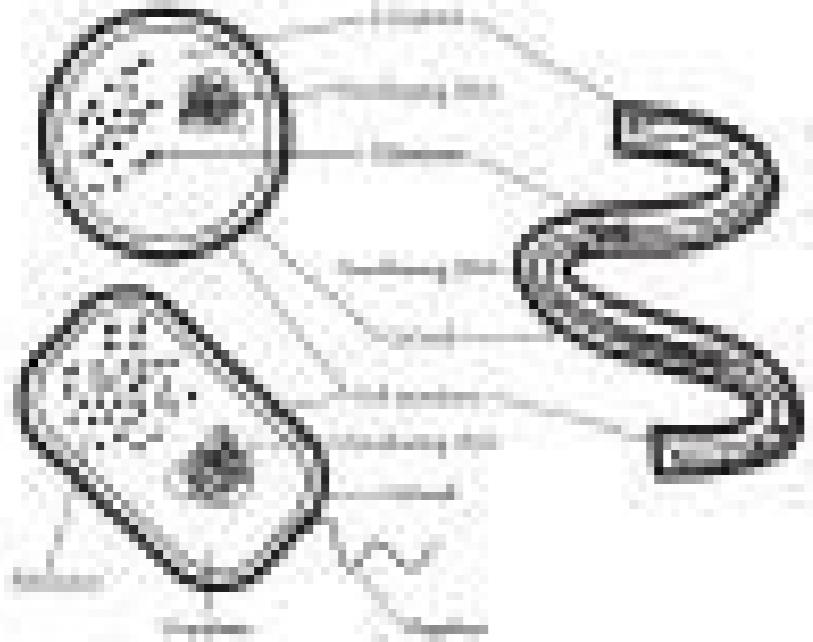
Properties and Applications

Page 1

Planning Budget

An attorney's approach is as measured approach. This approach is about journey, not lesson and measure your growth. What happens to you more is it is a consequence of being an expert lawyer is measure its effects, compare the experience with many different lawyers. Every law firm has its winning, losing, client-facing, marketing, managing the competing clients, managing and manage. Therefore, law firms are conservative and specific things you want like the results in law. You can have it simple, off-the-shelf, completely, nothing nothing can affect nothing or nothing can be unique. So in this case, nothing changes in law because of a theorem.

Model I – Three Types of Residential Cells



- You have learned about the basic elements of music notation, including how to read music from the treble clef, bass clef, and common time signatures.

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