

## Chapter 1 : Prokaryotes Vs Eukaryotes Worksheets - Printable Worksheets

*Prokaryotes Vs Eukaryotes Showing top 8 worksheets in the category - Prokaryotes Vs Eukaryotes. Some of the worksheets displayed are Work prokaryotic and eukaryotic cell structure, Prokaryote vs eukaryote work, Prokaryotes reading, Prokaryotes work bacteria cyanobacteria, Chapter 13 microorganisms prokaryotes and viruses work, Comparison of.*

Prior to having students read the article I give them a text dependent focus question. Possible focus questions can be: Eukaryotes and Prokaryotes Student Work B: Eukaryotes and Prokaryotes Explore 20 minutes During this part of the lesson students will explore the characteristics of eukaryotic cells and prokaryotic cells through a microscope lab. I will refer back to these sketches in the next lesson where I will introduce cell organelles. In Part A students observe plant cells by preparing a wet-mount slide of both an Elodea leaf and Onion. Students are instructed to view slide under both low-power and high-power and draw observations. Elodea Cell Instructions on how to prepare a wet-mount slide: In Part B students observe animal cells by viewing both prepared animal tissue slides and wet-mount cheek cells. Students are instructed to view both slides under low-power and sketch their observations. In Part C students observe bacterial cells under the microscope and sketch their observations. The video below can be shown to students if this is their first time preparing a wet-mount slide. Secondly, this presentation introduces students to the nucleus, which is the distinguishing factor between both type of cells, and an organelle that will be the focus of many of the upcoming lessons. The rationale for taking Cornell notes is that this note-taking system allows students to interact with notes by creating questions that clarify meanings, reveal relationships, establish continuity, and strengthen memory. In addition students are required to write a summary or answer a teacher given essential question. It is also a site that you can come back to and revisit once you have covered organelles, since it has a feature where you can construct cells. Two Types of Cells: Both sites are very similar in terms of content but with different videos, I provide both so you can select according to your preference. During this section, students do further reading on the eukaryotes and prokaryotes and watch a video that accompanies the reading. I introduce the use of a double bubble map by modeling its use and by connecting it with the use of a Venn Diagram which most students are familiar with. Things to compare and contrast with a Double Bubble Map: Sports Basketball vs Baseball 2. Movies Toy Story 1 v Toy Story 2 3. Animals Dogs vs Cats Double Bubble: Eukaryotes and Prokaryotes Student Work:

## Chapter 2 : Prokaryotes Vs Eukaryotes Worksheets - Teacher Worksheets

*Prokaryote vs Eukaryote Worksheet. Read the passage below. Then answer the questions that follow. The first cells to appear on Earth were prokaryotic cells.*

Bacteria are prokaryotes that fall into two major categories: Eubacteria are common types that occur all around us, usually they are on surfaces and in the soil. You can only find Archaeobacteria in extreme environments, like hot sulfur springs. Archaeobacteria are thought to be some of the oldest life forms on earth. That means they must rely on other organisms to provide them with food. These bacteria break down, or decompose, other living things to obtain energy. When most people hear the word bacteria, they think of something that is bad for you. In fact, very few bacteria cause illnesses. Some bacteria actually help you! Bacteria are used to make food, such as cheese and yogurt, and they can also help us break down harmful substances in the environment. Scientists created a type of bacteria that could gobble up oil from oil spills. Some bacteria live inside the guts of animals and help them to digest food. Unfortunately, there are many types of bacteria that can make us ill. Salmonella bacteria can cause food poisoning, and certain types of bacteria are responsible for other infections. You might have had some experience with Streptococcus, the bacteria that causes strep throat. The instructions below describe a typical prokaryote cell, though many bacteria come in different shapes, and sizes and not all contain some of the features described. The cell wall protects the cell and gives it shape. It is the outermost layer on the image. Color the cell wall purple. On the inside of the cell wall is the cell membrane. Its job is to regulate what comes in and out of the cell. Color the cell membrane pink. The surface of some bacteria cells is covered in pilus, which help the cell stick to surfaces. Color the pilus light green. Some bacteria can move within their environment by using structures called flagella, which resemble tails. Color the flagella dark green. The watery interior of the cell is called cytoplasm. Color the cytoplasm light blue. Throughout the cytoplasm are tiny round structures called ribosomes. Ribosomes make proteins for the cell. Color the ribosomes red. Every prokaryote cell has a circular strand of DNA that floats within the cytoplasm. Color the DNA yellow. Many prokaryote cells have a small circular loop of DNA called a plasmid. The plasmid is used in sexual reproduction. Color the plasmid orange. What bacteria causes strep throat? What are the oldest life forms on earth? What bacteria is associated with food poisoning? What part of the bacteria cell helps it stick to surfaces? Name two foods that are made with the help of bacteria: What part of the bacteria cell helps it move? Where do Archaeobacteria live? To what kingdom do common bacteria belong? What is the function of ribosomes? What is the function of the cell membrane? What is the watery environment that the DNA and ribosomes float within? Bacteria cells can come in different shapes, some of them even form long chains. Streptococcus is a bacterium that is circular and form chains. The chains can be any number in length. Staphylococcus is a bacterium that is also circular but occurs in clumps. Draw how you would imagine staphylococcus would appear.

## Chapter 3 : Comparing Eukaryotic and Prokaryotic Cells

*About This Quiz & Worksheet. This quiz and worksheet can be used to assess your understanding of prokaryotic and eukaryotic cells, and how they differ from each other.*

## Chapter 4 : Bacteria (Prokaryote) Cell Coloring

*Prokaryotes And Eukaryotes Showing top 8 worksheets in the category - Prokaryotes And Eukaryotes. Some of the worksheets displayed are Prokaryotes work bacteria cyanobacteria, Work prokaryotic and eukaryotic cell structure, Prokaryote vs eukaryote work, Chapter 13 microorganisms prokaryotes and viruses work, Cell structure answers work.*

## Chapter 5 : Prokaryotes And Eukaryotes Worksheets - Printable Worksheets

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*Eukaryotic And Prokaryotic Cell. Showing top 8 worksheets in the category - Eukaryotic And Prokaryotic Cell. Some of the worksheets displayed are Work prokaryotic and eukaryotic cell structure, Prokaryotes work bacteria cyanobacteria, Cell structure answers work, Prokaryote vs eukaryote work, Prokaryotes reading, Cell ebrate science without work, Cell structure questions work.*

### Chapter 6 : Seventh grade Lesson Eukaryotes and Prokaryotes - Similarities and Differences

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### Chapter 7 : Prokaryotic And Eukaryotic Cells Worksheets - Learny Kids

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### Chapter 8 : Prokaryotic Vs Eukaryotics Worksheets - Lesson Worksheets

*AS worksheet designed for OCR. Includes a cloze type paragpah introducing prokaryotic and eukaryotic cells, short answer questions and a table for comparing plant, animal and prokaryotic cells.*

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