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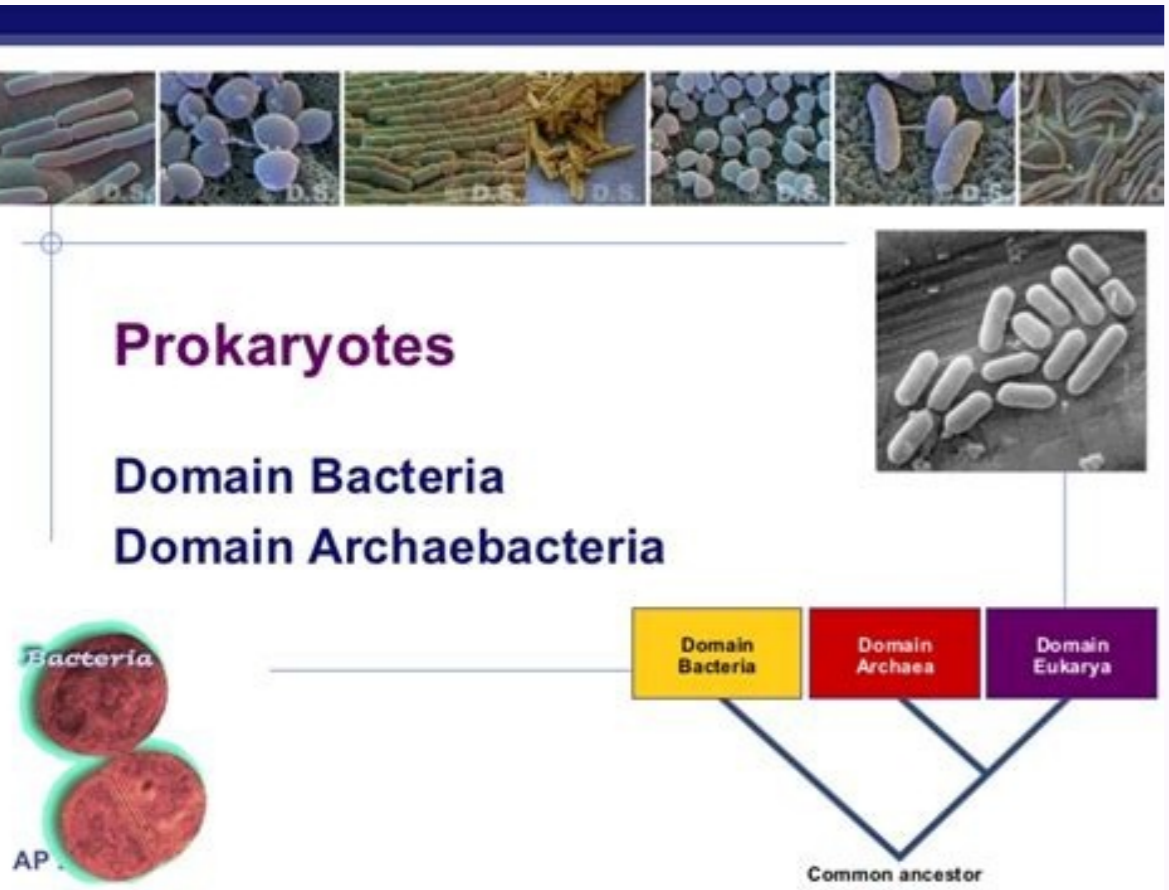


Open

- Chapter 27: Bacteria and Archaea Reading Guide
- Overview**
- The chapter opens with amazing tales of life at the extreme edge. What are the "masters of adaptation"? Describe the one case you thought was most dramatic.
  - Structure and functional adaptations contribute to prokaryotic success**
  - Which two domains include prokaryotes?
    - Let's focus on some general details about prokaryotes.
      - Are they multicellular or unicellular?
      - Compare their size relative to eukaryotic cells.
      - What three shapes are most common? Draw and label them.
      - What is the composition of the typical bacterial cell wall?
    - A key feature of prokaryotic cells is the cell wall. What three functions does it provide for the cell?
    - Quick review! What material composes the cell wall of plants? Of fungi?
    - The cell walls of archaeans are different. They lack \_\_\_\_\_ but contain \_\_\_\_\_ and \_\_\_\_\_.
    - Explain the difference between gram-positive and gram-negative bacteria.
    - What is a bacterial capsule? What functions may it serve?
    - Many prokaryotes are capable of directional movement. What is this called?
    - What structure makes movement of bacteria possible?
    - What are the small, circular, self-replicating pieces of DNA found in bacteria called?
    - Copy and fill in the chart below.

	Prokaryotes	Eukaryotes
Size		
Genomes		
Membranes		
Location of genome		
Plasmids		
Ribosomes		

    - Under ideal conditions, how quickly can E. coli divide? What conditions check prokaryotic reproduction?
    - What does the bacteria show prokaryotic populations to consist of millions of individuals?
    - Draw and label a typical prokaryotic cell. Be sure to include the cell wall, sex pilus, circular chromosome, nucleoid region, ribosomes, flagella, capsule, and pili. Also, sketch in a plasmid and label it. For each structure, know the function.
    - When conditions for survival are difficult, some species produce endospores. What are these? Can you name any species that form endospores?
    - Rapid reproduction, mutation, and genetic recombination promote genetic diversity in prokaryotes**
    - You should now have some idea why there is so much potential for genetic diversity with bacterial populations. Although mutation is the major source of genetic variation in prokaryotes, explain each of the following three other sources of variation: (A) recombination, (B) transformation, and (C) transduction.
    - What horizontal gene transfer? How is it accomplished in bacteria?
    - What is a sex pilus? What is the F factor? How are the two related?
    - The F factor is an episome. This is a piece of DNA that can integrate within the main chromosome of the bacterium, or else exist as an independent plasmid. What is the bacterial cell called.



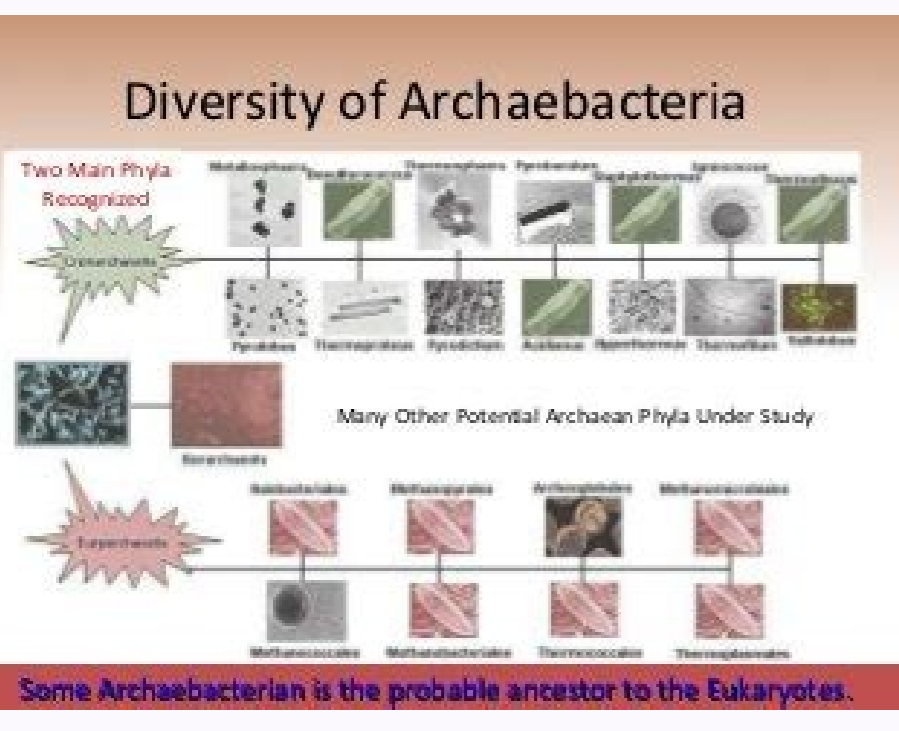
**BACTERIA VERSUS ARCHAEA**

**2 KEY DIFFERENCES**

BACTERIA	ARCHAEA
Bacteria have peptidoglycan in their cell wall	Archaea do not have peptidoglycan in their cell wall
Genes are different from Eukarya	Genes are more similar to Eukarya

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## Classification, Viruses, Bacteria, Protists, Fungi Study Guide

USE Guided reading worksheet on classification, . Classification notes, Virus and bacteria worksheet, Protists worksheet, Fungi notes ,Chapter 2, section 2 and Chapter 7

### Short Answer

1. What is taxonomy? *The scientific study of how living things are classified*
2. Why do scientists organize living things into groups? *So that the organisms are easier to study*
3. An organism's scientific name consists of *its genus name and its species name*
4. The more classification levels that two organisms share, *the more/less characteristics they have in common*
5. The characteristics that are used to place organisms into kingdoms are *their ability to make food*
6. Which group of organisms includes only multicellular heterotrophs? *animals*
7. Which domain(s) include(s) only prokaryotes? *Bacteria and Archaea*
8. Which kingdoms include both unicellular and multicellular organisms? *Fungi and protists*
9. What do fungi have in common with animals? *They are heterotrophs*
10. What type of reproduction produces fungi that are different from either parent? *Sexual reproduction*
11. Like animals, animal-like protists are *heterotrophs*.
12. Where would fungi NOT likely thrive? *desert*
13. Which structures allow sarcodines such as amoebas to move? *pseudopods*
14. What characteristic do all algae share? *They are autotrophs*
15. Fungi that decompose dead organisms *return the important \_\_\_ into the soil*
16. What bacteria-killing fungus did Fleming isolate in his 1928 experiment? *Penicillium*
17. What animal-like characteristic do euglenoids have? *They can sometimes be heterotrophs.*
18. Why are viruses like parasites? *They can harm cells they enter.*
19. Which shapes describes some bacterial cells? *Spiral, coccus(round), bacillus(rod)*
20. Which of the following is found in the cytoplasm of bacterial cells? *Genetic material*
21. What process results in genetically different bacteria? *Conjugation*
22. Endospores form during *harsh environmental conditions.*
23. What important role do bacteria called decomposers play? *They return basic chemicals to the environment.*
24. How does a vaccine work? *It activates the body's natural defenses.*
25. Binary fission is the bacterial process of *asexual reproduction*
26. Viruses are considered to be nonliving because *they do not show all the characteristics of life.*
27. Heterotrophic bacteria obtain food by consuming *autotrophs and other heterotrophs.*
28. What directly provides energy for a virus? *its host*

Chapter 27 bacteria and archaea reading guide answers. Chapter 27 bacteria and archaea reading guide answers pdf.

Thank you very much for your cooperation. A hypothetical bacterium swims among human intestinal contents until it finds a suitable location on the intestinal lining. bacteriophorus on its way to the prey's cytoplasm? It contains no plasmids and relatively little peptidoglycan. This bacterium's ability to survive in a human who is taking penicillin pills may be due to the presence of \_\_\_\_\_. It adheres to the intestinal lining using a feature that also protects it from phagocytes, bacteriophages, and dehydration. Fecal matter from a human in whose intestine this bacterium lives can spread the bacterium, even after being mixed with water and boiled. A) undergo death as a result of water loss from the cell B) are unable to metabolize the glucose or fructose, and thus starve to death C) are obligate anaerobes D) are unable to swim through these thick and viscous materials Answer: A Bloom's Taxonomy: Application/Analysis Section: 27.1 3) Use the information in the following paragraph to answer the question. A) phospholipid membrane, capsule, peptidoglycan, lipopolysaccharide membrane B) lipopolysaccharide membrane, peptidoglycan, capsule, phospholipid membrane C) lipopolysaccharide membrane, capsule, peptidoglycan, phospholipid membrane D) capsule, lipopolysaccharide membrane, peptidoglycan, phospholipid membrane Answer: D Bloom's Taxonomy: Application/Analysis Section: 27.1 2) Jams, jellies, preserves, honey, and other foods with high sugar content hardly ever become contaminated by bacteria, even when the food containers are left open at room temperature. A) gram-negative cell wall B) peptidoglycan in the cell wall C) lipopolysaccharides in the cytoplasm D) long polypeptides in the cell wall Answer: A Bloom's Taxonomy: Application/Analysis Section: 27.1 Thank you for your participation! In order to continue enjoying our site, we ask that you confirm your identity as a human. This is because bacteria that encounter such an environment \_\_\_\_\_. The bacterium is not susceptible to the penicillin family of antibiotics. In an attack upon a gram-negative bacterium that has a slimy cell covering, what is the correct sequence of structures penetrated by B. Campbell Biology, 11e (Urry) Chapter 27 Bacteria and Archaea 27.1 Multiple-Choice Questions 1) The predatory bacterium Bdellovibrio bacteriophorus drills into a prey bacterium and, once inside, digests it. No Frames Version 27: Bacteria and Archaea Web Site Navigation Navigation for 27: Bacteria and Archaea 1 Copyright © 2017 Pearson Education, Inc.

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