Dirctions: Read, highlight, and answer the questions!

#### Archaebacteria and Eubacteria

Archaebacteria are the oldest organisms living on the Earth. They are unicellular prokaryotes and belong to the kingdom, Archaea. Remember that prokaryotes do not have a nucleus that surrounds their Chromosomes. All Eukaryotes, including animal and plants have their chromosomes contained within a nucleus.

They were first discovered in 1977 and classified as bacteria. Most archaebacteria appear like bacteria, when observed under the microscope. However, they are quite different from bacteria and eukaryotic organisms.



Archaebacteria are found in very harsh conditions such as in the volcanic vents or at the bottom of the sea. They are often called "extremophiles". They can easily survive in such extreme environment as sea vents releasing sulfide-rich gases, hot springs, or boiling mud around volcanoes. They are found in the depths of the ocean. They are found in these place also swamps, deep-sea waters, sewage treatment facilities, and even in the stomachs of cows. This type of bacteria is different from the common type of bacteria that we see every day called Eubacteria.

Eubacteria are microscopic single-celled organisms. They are sometimes referred to as the "true bacteria," differentiating them from Archaebacteria. The vast majority of organisms we think of as "bacteria" are Eubacteria. Eubacteria are responsible for many human diseases, but also help maintain health and play an important role in keeping the planet healthy.

What makes prokaryotes different from Eukaryotes?

#### **Growth and Development**



Most bacteria fall into 3 shape categories: spheres (Cocci), rods (Bacilli), and spirals (Spirilli). There are several others, but these 3 are the most common. The picture to the right

shows the different shapes. As for the growth part, bacteria do not grow like humans. There is no "baby"

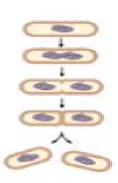


stage to "adult" stage. Bacteria are a one-size fits all kind of like you being born as a full grown adult (we probably wouldn't need car seats. ).

2. What are the 3 shapes of bacteria?

#### Reproduction

Archeabacteria reproduces by a process called **binary fission**. This process is similar to mitosis in that one cell becomes two cells. This process does not happen in seconds it actually takes about 20 minutes for a bacteria cell to divide. This is much quicker than a human cell that can take up to or more than 24 hours to divide.



# **Biology Study Guide Prokaryotes Bacteria And Archaea**

**Liying Dong** 

**Biology Study Guide Prokaryotes Bacteria And Archaea:** 

This book delves into Biology Study Guide Prokaryotes Bacteria And Archaea. Biology Study Guide Prokaryotes Bacteria And Archaea is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Biology Study Guide Prokaryotes Bacteria And Archaea, encompassing both the fundamentals and more intricate discussions.

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  The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Biology Study Guide Prokaryotes Bacteria And Archaea.

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