

## High School Science Virtual Learning

# Applied Biological Science Bacteria Morphology

April 9th, 2020



## High School Applied Biological Science Lesson: April 9th, 2020

#### **Objective/Learning Target:**

I can identify bacteria by their shapes and grouping.

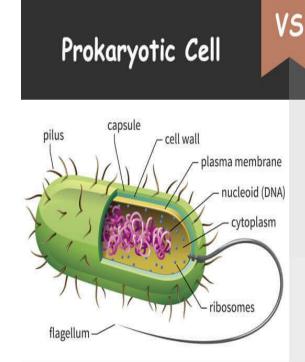


#### Let's Get Started

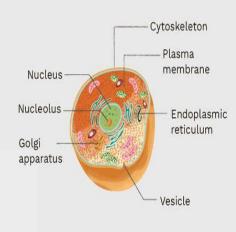
Using prior knowledge about bacteria and the image to the right make a claim answering the question below then provide evidence and reasoning to support your claim.

Is a bacteria a prokaryotic or eukaryotic organism?

- 1. Claim:
- 2. Evidence:
- 3. Reasoning:



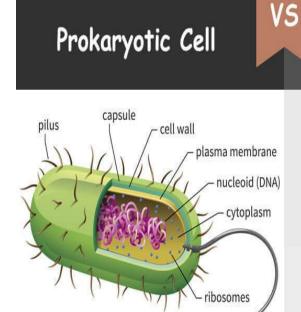




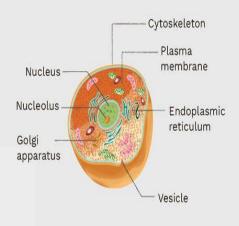


#### Let's Get Started: Answer Key

- 1. Claim: Bacteria are prokaryotic organisms.
- 2. Evidence: Prokaryotes do not have membrane bound organelles. They are single celled organisms. Their DNA is circular.
- 3. Reasoning: Bacteria are classified as prokaryotic cells because they do not contain a nucleus or other membrane bound organelles.









### **Lesson Activity**

#### **Directions:**

- 1. Watch the video and read over the article about bacterial shapes and arrangements.
- 2. Create a notes page that includes all of the shapes and arrangements of bacteria. Use this to help you answer the practice questions.

Link(s): <u>Bacterial Shapes and Arrangements Video</u> <u>Bacterial Shapes and Arrangements Article</u>



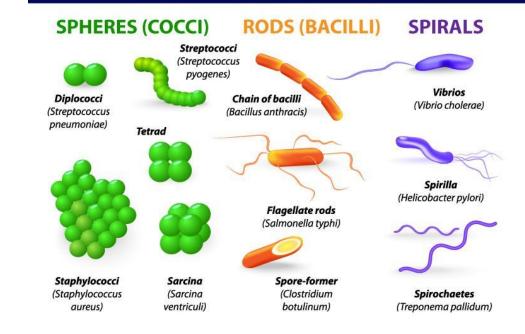
## **Practice**

Complete the following questions based off of what you learned from the video and the image on the next slide.



#### Model 1

#### **BACTERIA SHAPES**





#### Questions:

- 1. Bacillus is a genus of bacteria that also refers to what cell shape?
- 2. Under a microscope, what type of organism would appear as a group-like cluster of round cells?
- 3. Under a microscope, what type of organism would appear as a chain of rod-shaped cells?
- 4. In microbiology, what does the prefix staphylo refer to?
- 5. Draw an image of what a streptococcus would look like under a microscope.



#### Once you have completed the practice questions check with the answer key.

- 1. Bacillus is a genus of bacteria that refers to the cell shape Rod.
- 2. Staphylococcus
- 3. Streptobacillus
- 4. Staphylo in microbiology refers to bacteria being in group like cluster arrangements when viewing them under a microscope.
- 5.



#### **More Practice:**

Follow the links below to do more practice.

- 1. Morphology and Taxonomy Practice
- 2. Practice Quizziz