

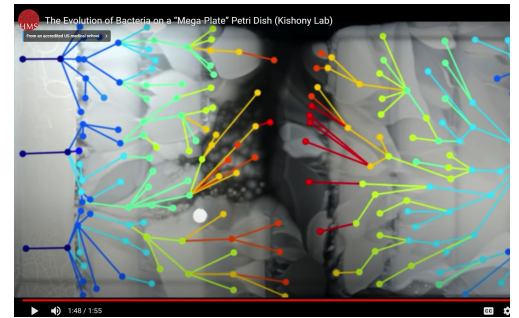
Name _____ Evolution and Natural Selection

Lesson 2: Name Parts of a Bacteria Cell Lesson Worksheet Version 2

Bacteria are single-celled organisms that live less than a day and replicate, or make copies of themselves to grow in number.

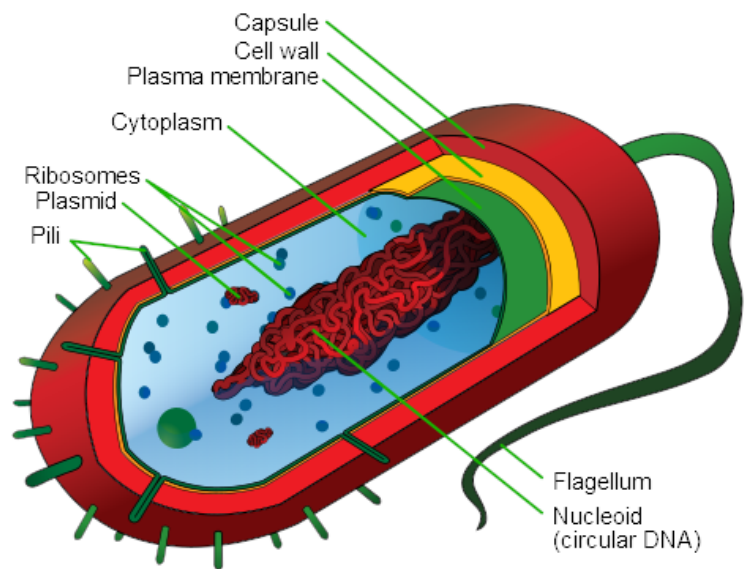
Microbiologists study the way bacteria cells react to things such as antibiotics. Antibiotics are medicines designed to kill bacteria. When bacteria are in the presence of antibiotics, some can have a random mutation that can allow the bacteria to survive.

This can happen even at high concentrations of an antibiotic as shown in this image from [The Evolution of Bacteria Video](#). The bacteria mutated very quickly in a short amount of time to become resistant to a highly concentrated antibiotic. In the centre of the picture the antibiotic is at 1000 times the concentration it was at the beginning. Even though the antibiotic was strong, the bacteria was still able to mutate and survive.



This is a typical bacteria cell. How the bacteria cell mutates to become resistant to antibiotics varies. Sometimes the bacteria cell mutates by altering itself genetically (DNA in the nucleoid).

Study the names of the different bacteria cell parts. When you think you have memorized the names, label the same image on the next page.



Challenge option Work with a partner to see who has the best memory and can complete the fastest. Use the above image as an answer guide to mark each other.

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