

Name: \_\_\_\_\_

Pd: \_\_\_\_\_ Date: \_\_\_\_\_

Science 8  
Notes on Cell Theory

**Cell Theory** states that:

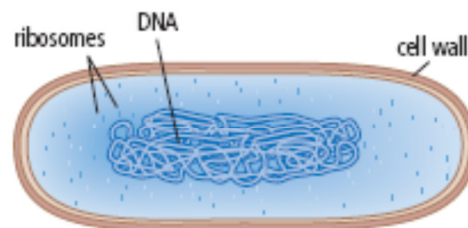
1. The **cell** is the basic unit of life.
2. All organisms are composed of **one or more cells**.
3. All cells come from other living **cells**.

**Prokaryotic and Eukaryotic Cells:**

Cells are classified into **two** groups:

1. **Prokaryotic**: pro-**“before”**-karyon-**“membrane bound”** structures

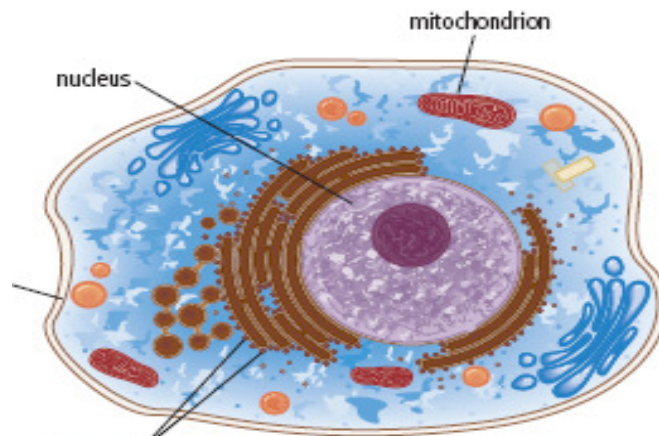
Prokaryotic cells have ribosomes but they are not surrounded by a membrane



Prokaryotic cell

2. **Eukaryotic**: eu- **“after”**- karyon-**“membrane bound”** structures

Eukaryotic cells have organelles that are surrounded by membranes.

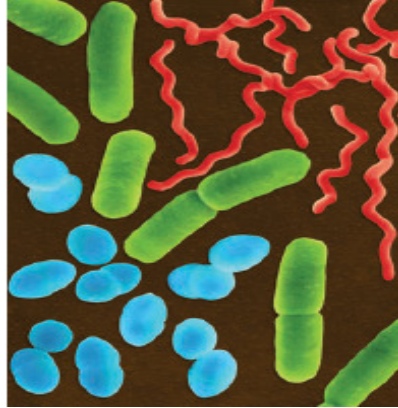


Eukaryotic cell

Eukaryotic cells are usually **larger** than prokaryotic cells.

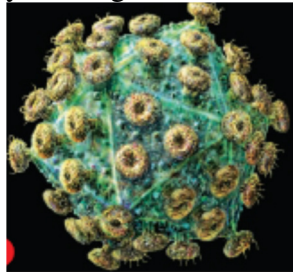
## Bacteria:

1. Are **prokaryotic** cells
2. Some bacteria cause **diseases** such as: **tuberculosis and strip throat**.
3. **Helpful** bacteria are used to make **food** and **medicine** such as: **cheese, yogurt and penicillin**.
4. Bacteria are often grouped by the **shape** of their cells:



## Viruses:

1. Viruses are **not living**.
2. **HIV, chicken pox**, and the **flu** are examples of viruses.
3. Viruses **do not** contain any cell organelles but reproduce by using a host cell.



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**Cell Theory** states that:

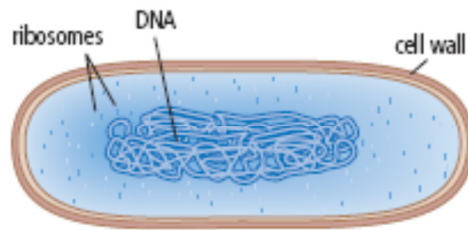
1. The \_\_\_\_\_ is the basic unit of life.
2. All organisms are composed of \_\_\_\_\_.
3. All cells come from other living \_\_\_\_\_.

**Prokaryotic and Eukaryotic Cells:**

Cells are classified into \_\_\_\_\_ groups:

1. \_\_\_\_\_: pro-\_\_\_\_\_ karyon-\_\_\_\_\_ structures

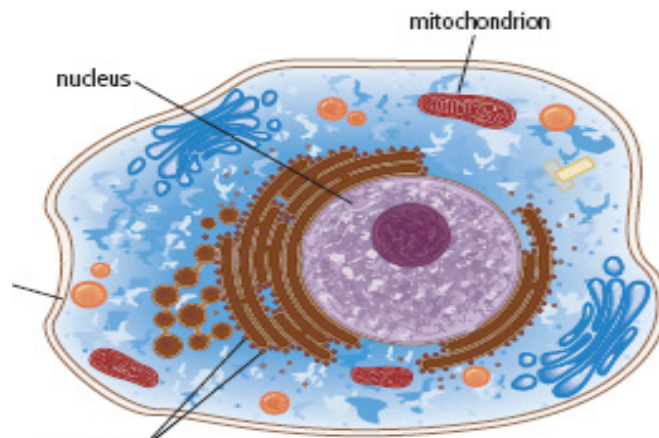
Prokaryotic cells have ribosomes but they are not surrounded by a membrane



Prokaryotic cell

2. \_\_\_\_\_: eu-\_\_\_\_\_ - karyon-\_\_\_\_\_ structures

Eukaryotic cells have organelles that are surrounded by membranes.

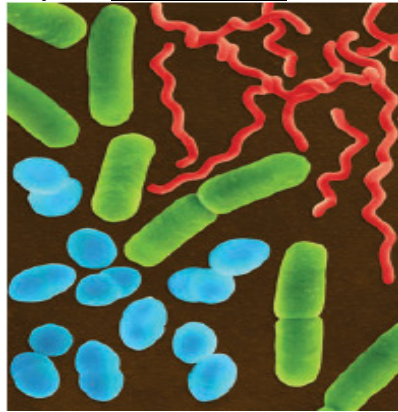


Eukaryotic cell

Eukaryotic cells are usually \_\_\_\_\_ than prokaryotic cells.

## Bacteria:

1. Are \_\_\_\_\_ cells
2. Some bacteria cause \_\_\_\_\_ such as:  
\_\_\_\_\_.
3. \_\_\_\_\_ bacteria are used to make \_\_\_\_\_ and \_\_\_\_\_  
such as: \_\_\_\_\_.
4. Bacteria are often grouped by the \_\_\_\_\_ of their cells:



## Viruses:

1. Viruses are \_\_\_\_\_.
2. \_\_\_\_\_, \_\_\_\_\_, and the \_\_\_\_\_ are examples of viruses.
3. Viruses \_\_\_\_\_ contain any cell organelles but reproduce by using a host cell.

