

**2.1 Cell Structure**

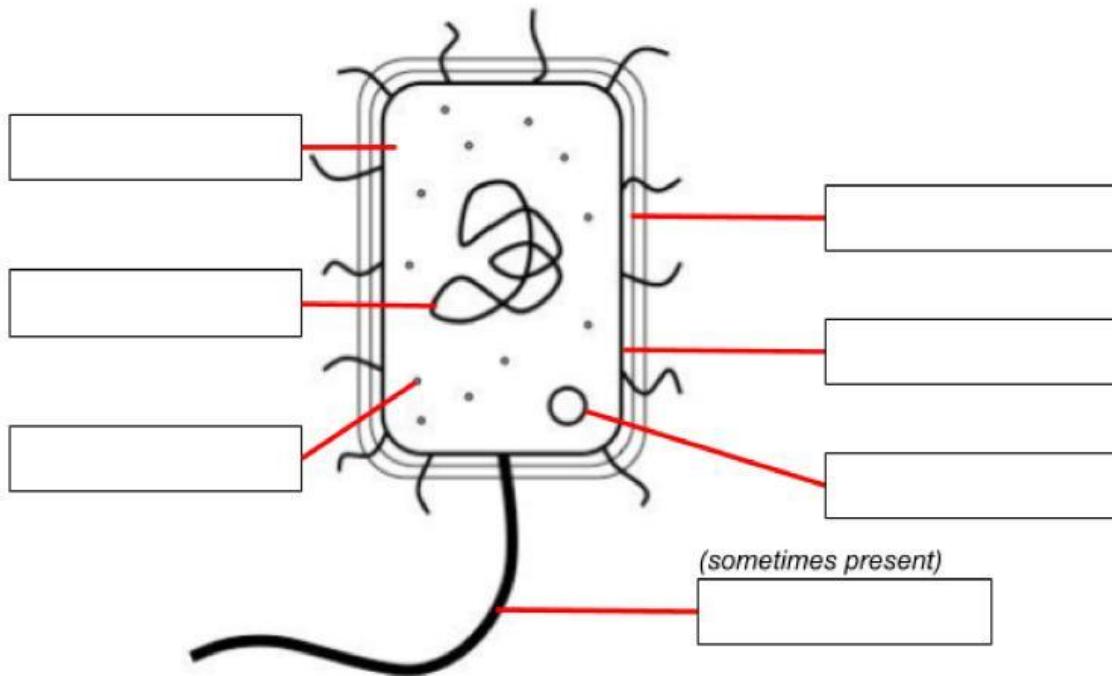
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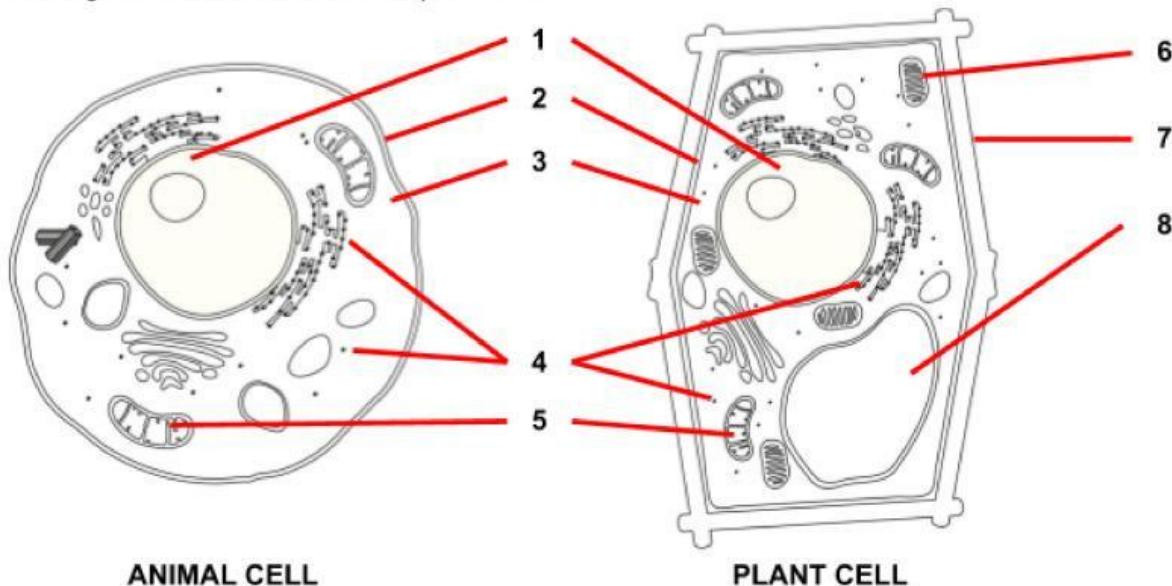
- Describe and compare the structure of a plant cell with an animal cell
- Describe the structure of a bacterial cell
- Identify the cell structures in diagrams and images of plant, animal and bacterial cells
- Describe the functions of the structures in plant, animal and bacterial cells

**CELLS***Read pages 19-25 in your textbook, then complete this worksheet.**A score of **80% or above** is required for homework to be considered completed.***Structure of a bacterial cell***Label the structures in the bacterial cell below.*



## Structure of animal and plant cells

Use the diagram below to answer the questions.



- 1 Identify structures 1-8 in the diagram and complete the table below comparing the animal cell and plant cell.

| NO. | STRUCTURE | NO.                       | STRUCTURE |
|-----|-----------|---------------------------|-----------|
| 1   |           | 6                         |           |
| 2   |           | 7                         |           |
| 3   |           | 8                         |           |
| 4   |           | Found in plant cells only |           |
| 5   |           |                           |           |

- 2 Match structures 1-8 to their correct function.

| STRUCTURE | FUNCTION  |
|-----------|---|
| 1         | Jelly-like substance where most chemical reactions in the cell occur. |
| 2         | Contains chlorophyll which traps light for photosynthesis.            |
| 3         | Site of aerobic respiration; releases energy from food.               |
| 4         | Contains DNA and controls cell activities.                            |
| 5         | Partially permeable; controls what enters and leaves the cell.        |
| 6         | Made of cellulose; keeps the shape of the cell.                       |
| 7         | Site of protein synthesis.  |
| 8         | Stores cell sap.  |

**Comparing animal, plant, and prokaryote cells***Complete the table comparing the three different cells.*

| Feature      | Animal cell | Plant cell | Prokaryote<br>(bacterial cell) |
|--------------|-------------|------------|--------------------------------|
| nucleus      |             |            |                                |
| cell wall    |             |            |                                |
| mitochondria |             |            |                                |
| chloroplasts |             |            |                                |
| ribosomes    |             |            |                                |
| plasmid      |             |            |                                |
| DNA          |             |            |                                |