

## 1.2 Ultrastructure of Cells

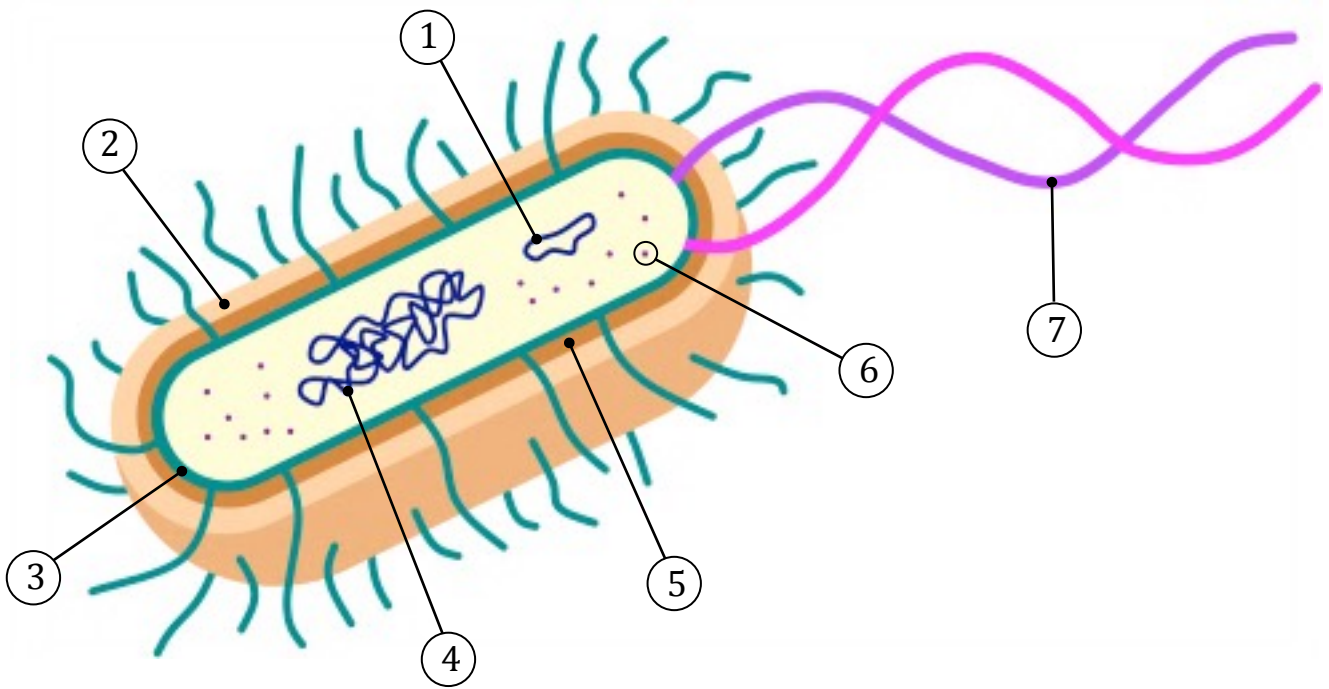
### Prokaryotic Cells

Define prokaryote

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Label the following diagram of a prokaryotic cell



1. ....

5. ....

2. ....

6. ....

3. ....

7. ....

4. ....

Distinguish between the genophore and plasmids

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State the composition of a bacterial cell wall

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*Outline the role of pili*

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*Describe how bacterial cells divide*

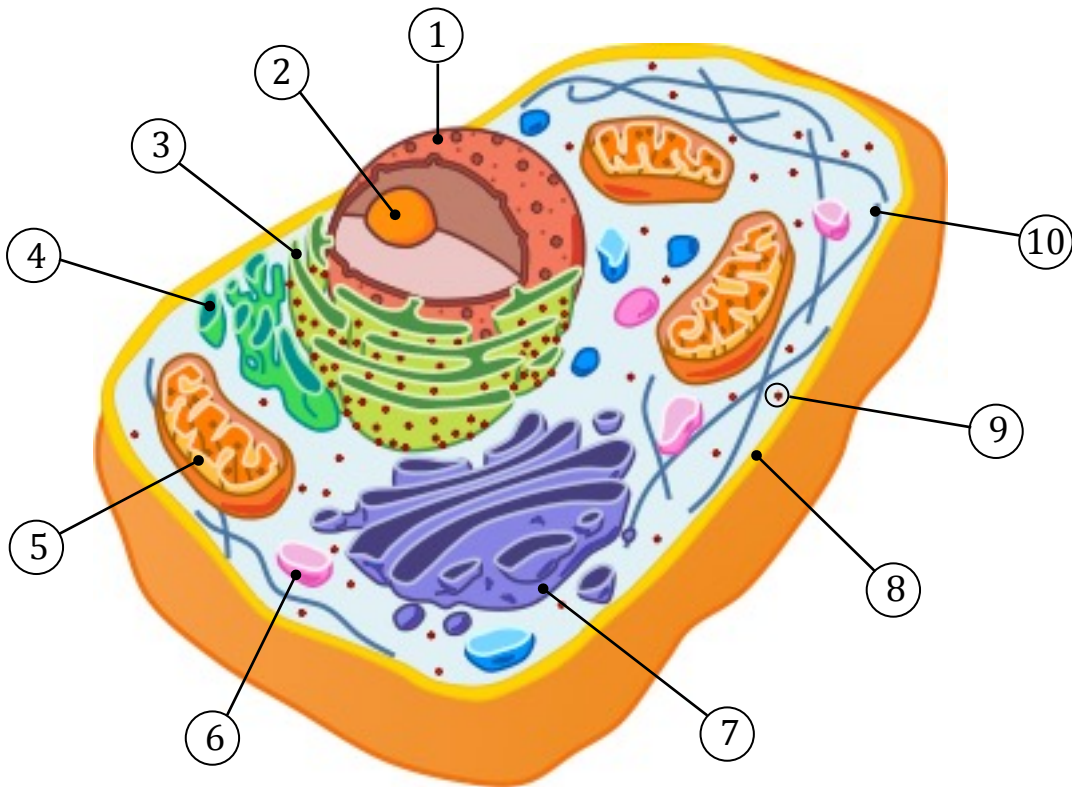
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### **Eukaryotic Cells**

*Label the following diagram of an animal cell*



- 1. ....
- 2. ....
- 3. ....
- 4. ....
- 5. ....

- 6. ....
- 7. ....
- 8. ....
- 9. ....
- 10. ....

*Explain how the compartmentalisation of eukaryotic cells allows for greater complexity*

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*State the role of the following organelles*

Nucleus	
Nucleolus	
Endoplasmic Reticulum	
Golgi Apparatus	
Ribosomes	
Mitochondria	
Lysosome	

*Distinguish between the structure and function of smooth ER and rough ER*

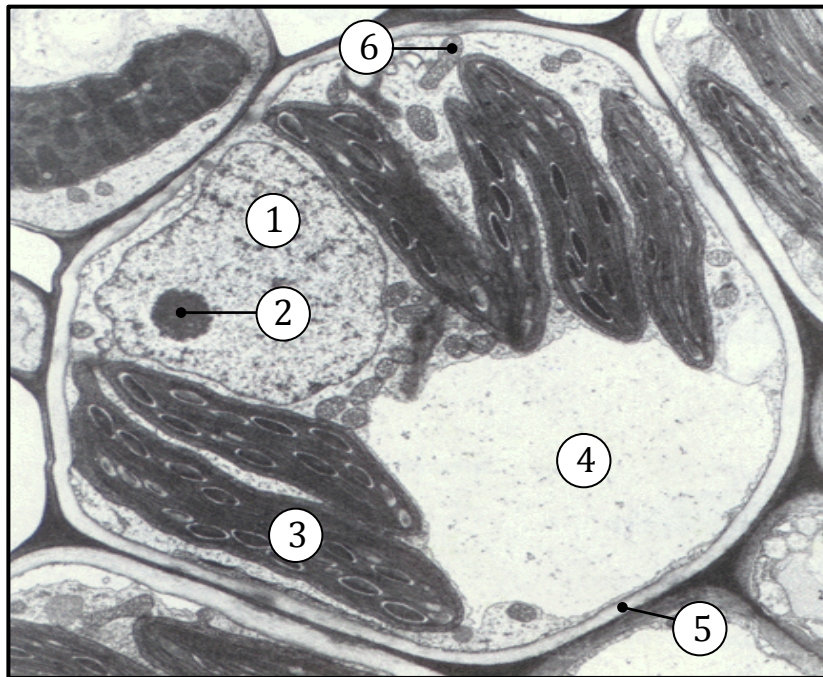
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*Label the following micrograph of a plant cell*



1. ....
2. ....
3. ....
4. ....
5. ....
6. ....

*Outline five differences between animal and plant cells*

1. ....
2. ....
3. ....
4. ....
5. ....

*State the composition of a plant cell wall*

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*Identify the function of chloroplast and identify where it is found in the plant tissue*

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### **Prokaryotic vs Eukaryotic Cells**

*Compare prokaryotic and eukaryotic cells according to the following features*

	<b>Prokaryote</b>	<b>Eukaryote</b>
DNA		
Organelles		
Reproduction		
Average Size		