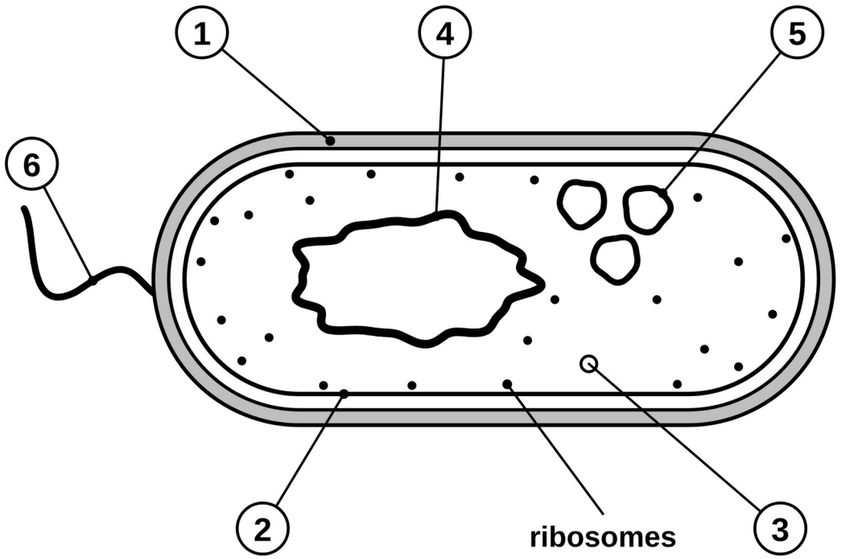
B1 L2 Mandatory worksheet: Bacterial cells

Name: _____ Class: _____

A. Label the bacterial cell

Help: online screens 1 and 3 [6]

The diagram shows a bacterial cell. One part has been labelled for you.



Name the parts labelled 1 to 6. [6]

1 _____ **4** _____

2 _____ **5** _____

3 _____ **6** _____

B. Jobs of the parts

Help: online screen 3 [5]

Write the job of each part of a bacterial cell.

Part	Its job
1. cell membrane	
2. cell wall	
3. ribosomes	
4. single loop of DNA	
5. flagellum	

C. Animal, plant or bacterial?

Help: online screens 3 and 6 [8]

Tick (✓) every cell that has the structure. A row may need more than one tick.

Structure	Animal cell	Plant cell	Bacterial cell
1. nucleus			
2. cell membrane			
3. cell wall			
4. ribosomes			
5. mitochondria			
6. chloroplasts			
7. a single loop of DNA, free in the cytoplasm			
8. plasmids			

B1 L2 Mandatory worksheet: Bacterial cells

Name: _____ Class: _____

D. Short answers

Help: online screens 2, 4, 6, 7, 9 and 10 [7]

1. Complete the sentence.
In a prokaryotic cell, the genetic material is not enclosed in a _____. [1]

2. Give one way the cell wall of a bacterium is different from the cell wall of a plant cell. [1]

_____

_____

3. Describe what plasmids are. [2]

_____

_____

4. Give one way a coloured electron micrograph of a bacterium is different from a diagram of one. [1]

_____

_____

5. Bacteria have no mitochondria. Name the process that releases energy in every living cell, including bacteria. [1]

_____

6. Circle the typical length of a bacterium. [1]

2 mm **2 µm** **20 µm** **200 µm**

E. Calculate

Help: online screen 7 [4]

how many times bigger = bigger size ÷ smaller size (both in the same unit)

(a) A plant cell is 90 µm long. A bacterium is 3 µm long. Calculate how many times longer the plant cell is. [2]

_____ times

(b) A line on a ruler is 1 mm long. 1 mm = 1000 µm. How many bacteria, each 5 µm long, would fit end to end along the line? [2]

_____ bacteria

F. Compare

Help: online screens 4 and 6 [4]

Give two similarities and two differences between a bacterial cell and an animal cell. [4]

Similarities:

1 _____

2 _____

Differences:

1 _____

2 _____