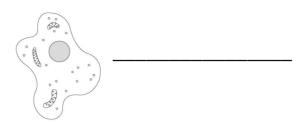
Prokaryotic and eukaryotic cells



Task 1: Define prokaryotic and eukaryotic cells a) Complete the label to say if the cell is eukaryotic or prokaryotic.





b) Fill in the r	Fill in the missing words below.				
	cells do not ha	ve a membrane bound			
	cell do have a	membrane bound			
prokaruotic	nucleus	eukaruotic			

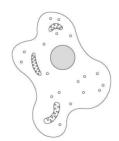
Task 2: Identifying examples of prokaryotic and eukaryotic cells

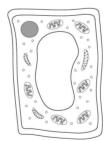
Complete the table to give examples of prokaryotic and eukaryotic organisms.

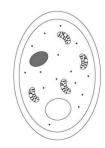
Eukaryotic	Prokaryotic

Name the cell in each diagram. b)









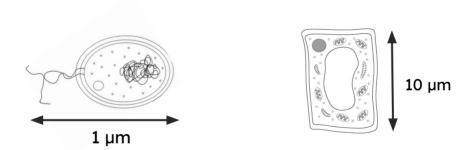


Task 3: Comparing prokaryotic and eukaryotic cells

a) **Complete** the table to compare the features of prokaryotic and eukaryotic cells.

Feature	Prokaryotic	Eukaryotic
Membrane bound subcellular structures		
DNA		
Size		
Cell division		
Cell walls		

b) **Use** these diagrams to answer the questions.



i) **Identify** three similarities between the prokaryotic cell and the eukaryotic cell in the diagram.

i) Identify three differences between the prokaryotic cell and the eukaryotic cell in the diagram.

Prokaryotic and eukaryotic cells





Task 1: Define prokaryotic and eukaryotic cells a) Complete the label to say if the cell is eukaryotic or prokaryotic.

	(8.	1
)
(/
The state of the s		

prokaryotic



eukaryotic

b)	Fill	in	the	missing	words	below.
----	------	----	-----	---------	-------	--------

Prokaryotic	cells do not have a membrane bo	ound <i>nucleus</i>
Eukaryotic	cell do have a membrane bound	nucleus

prokaryotic nucleus eukaryotic

Task 2: Identifying examples of prokaryotic and eukaryotic cells

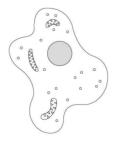
Complete the table to give examples of prokaryotic and eukaryotic organisms.

Eukaryotic	Prokaryotic
animal plant fungi (yeast)	bacteria

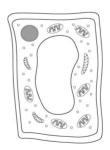
Name the cell in each diagram. b)



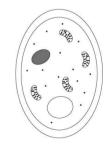
bacteria



animal



plant



fungi (yeast)



Answers

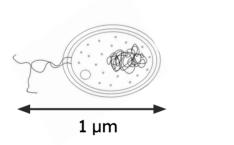


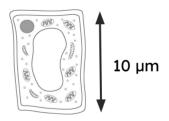
Task 3: Comparing prokaryotic and eukaryotic cells

a) **Complete** the table to compare the features of prokaryotic and eukaryotic cells.

Feature	Prokaryotic	Eukaryotic
Membrane bound subcellular structures	do not have any membrane bound sub-cellular structures	have membrane bound sub-cellular structures such as a nucleus, mitochondria and chloroplasts
DNA	DNA floating in cytoplasm	DNA inside membrane bound nucleus
Size	smaller 1-5 µm	bigger 5-100 µm
Cell division	binary fission	mitosis
Cell walls	cell walls made of peptidoglycan	Animal cells do not have cell walls. Plants have cell wall made of cellulose.

b) **Use** these diagrams to answer the questions.





- i) **Identify** three similarities between the prokaryotic cell and the eukaryotic cell in the diagram.
 - both have cytoplasm
 - both have a cell membrane
 - both have DNA
 - both have ribosomes
- i) **Identify** three differences between the prokaryotic cell and the eukaryotic cell in the diagram.
 - Prokaryotic cell has no nucleus OR DNA is free in the cytoplasm
 - Prokaryotic cell has no mitochondria
 - Prokaryotic cell has loop of DNA
 - Prokaryotic cell is smaller