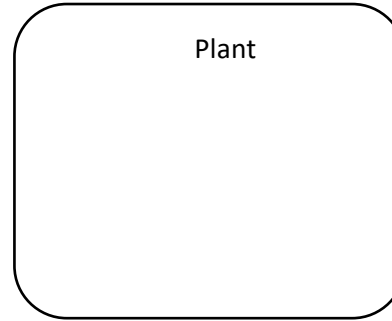
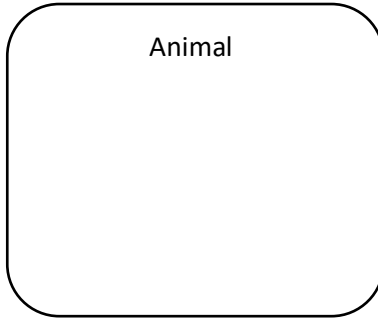


Describe the function of each organelle:

Organelle	Function
Nucleus	
Cell Membrane	
Cytoplasm	
Cell Wall	
Chloroplasts	
Vacuole	
Mitochondria	
Ribosomes	

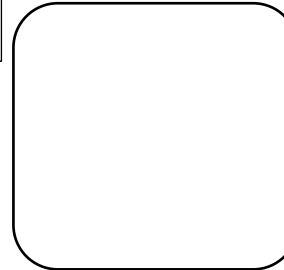
In the space below draw and label an animal and plant cell.



Describe the process of diffusion

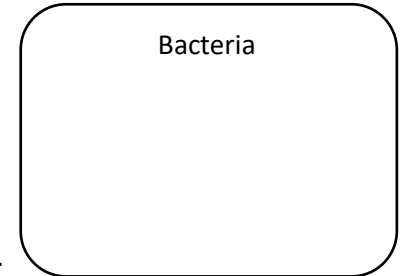
.....

Describe the process of Osmosis. Try and use keywords such as hypertonic and hypotonic.



.....

In the space draw and label a bacterial cell



For each specialised cell below, explain how they are adapted to their function

Specialised Cell	Explanation of adaptation
Red Blood Cell	
Ciliated Cell	
Palisade Cell	
Sperm Cell	
Nerve Cell	
Root Hair Cell	

Cell Biology

Name the two types of stem cells.

1.....
 2.....

Explain how we get embryonic stem cells, why it is controversial and what problems could patients face from it.



.....

What is the function of: **Flagella**

Slime Capsule

Write down the equation for magnification below in an equation triangle.

Label each quantity.



State the advantages of an electron microscope over a light microscope.

.....

Write out in standard form how many of each are in 1m

- 1mm
- 1µm
- 1nm

What is therapeutic cloning?

.....

Complete the table to show the differences between eukaryotes and prokaryotes

	Prokaryotes	Eukaryotes
DNA		
DNA enclosed in a nucleus		
Cell membrane		
Cell wall		
Plasmid DNA in cytoplasm		
Membrane-bound organelles		