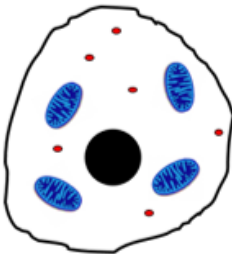
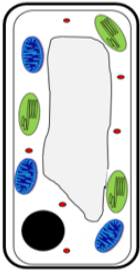


What is a eukaryotic cell?

Label the animal cell



Label the plant cell



What is a plant cell wall made out of?

What is the equation for magnification?

What is meant by the terms:
Resolution –

Magnification -

What is a prokaryotic cell?

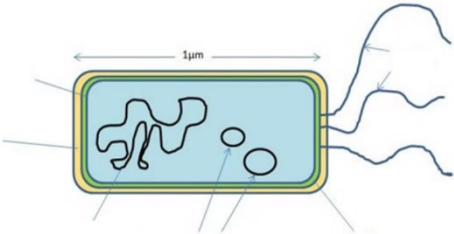
Describe the function of each of these organelles

Nucleus	
Cytoplasm	
Cell membrane	
Mitochondria	
Ribosomes	
Cell wall	
Chloroplasts	
Vacuole	
Highlight the organelles only found in plants green	

Define diffusion:

Give one example of diffusion in plants and one in animals

Label the bacterial cell



Give one way in which each of the following cells is adapted to its job:

Nerve cell –

Muscle cell –

Sperm cell –

Root hair cell –

Xylem cell –

Phloem cell -

What 3 factors affect the rate of diffusion:

Define osmosis:

Define active transport:

Give an example of active transport in plants:

State what happens in the different stages of the cell cycle

Stage 1 –

Stage 2 –

Stage 3 -

What is the job of the flagellum?

What is a plasmid?

What is the job of the slime layer?

Define the following terms:
Chromosome –

Gene –

DNA –

Why is mitosis important?

What is an embryonic stem cell?

What is an adult stem cell?

What is meristem tissue?

List some advantages of using stem cells:

List some disadvantages of using stem cells:

Topic 1 Cell Biology

What is therapeutic cell cloning?