

National 5 Biology

Cell Structure

1. Name four structural features that a typical animal cell and a typical plant cell share. (4)
2. Name three structural differences between a typical animal cell and a typical plant cell. (3)
3. Give the function of each of the following structures: (8)
 - (a) Cell membrane
 - (b) Cell wall
 - (c) Nucleus
 - (d) Chloroplast
 - (e) Vacuole
 - (f) Cytoplasm
 - (g) Mitochondrion
 - (h) Ribosomes
4. Copy and complete the following table. (7)

Length in mm	Length in μm
0.023	
	254
0.165	
	764
0.459	
	1254
0.0025	

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5. Copy and complete the following table using ticks to show where the structures are found.

Structure	Animal cell	Plant cell	Fungal cell	Bacterial cell
Cell wall				
Cell membrane				
Nucleus				
Cytoplasm				
Chloroplast				
Sap vacuole				
Mitochondria				
Plasmid				

(4)

6. Copy and complete the following table.

Eyepiece	Objective	Magnification
5x	20x	
10x	50x	
20x		800
	30x	900x

(4)

Total - 30