

Tobermory High School

Standard Grade Biology

Investigating Cells

Living Cells

1. Draw and label
 - (a) an animal cell
 - (b) a plant cellto show the features they have in common as well as structural differences. (4)
2. Why do we use stains when studying cells? (1)
3. Choose three different cells and describe how their structure is related to their function. (3)
4. List the rules to be followed when using the light microscope. (6)
5. Convert the following measurements. (6)
 - (a) 15 microns to mm.
 - (b) 0.4 mm to microns.
 - (c) 0.025 mm to microns.
 - (d) 35 microns to mm.
 - (e) 1.25 cm to microns.
 - (f) 3.2 microns to mm.
6. Copy and complete the following table.

Eyepiece power	Objective power	Total magnification	Size of object viewed	Apparent size of object
5X	30X		0.01mm	
8X	50X			4mm
15X		600X	0.03mm	
	10X	400X		0.08mm
	30X	1200X	0.001mm	

(10)

Total = 30