

# Tobermory High School

## Standard Grade Biology

### Investigating Cells

### Diffusion

1. Define diffusion. (1)
2. Explain the importance of diffusion to living organisms. (2)
3. Define osmosis. (1)
4. Explain the difference between osmosis and diffusion. (1)
5. Explain, using diagrams, what happens to plant cells placed in
  - (a) a strong salt solution.
  - (b) distilled water.(4)
6. Write down the meaning of each of the following:
  - (a) plasmolysis.
  - (b) turgid.
  - (c) flaccid.
  - (d) semi-permeable membrane.(4)
7. Copy and complete the following table for living material placed in solutions of different concentrations. you should indicate gain by + and loss by –

Material	Fresh wt. (g)	30mins later (g)	Weight loss/gain + / -	% age loss/gain + / -
Potato				
Beetroot				
Turnip				
Rhubarb				
Onion				
Grape				

(12)  
**Total = 25**