

## **Standard Grade Biology**

### **Investigating Cells**

#### **2. Investigating diffusion.**

**Checklist    Grade**

At the end of this topic you should know:

- |  |                          |         |
|--|--------------------------|---------|
| (a) that a substance can diffuse from a high concentration to a low concentration.   | <input type="checkbox"/> | General |
| (b) the importance of diffusion to the cell.   | <input type="checkbox"/> | General |
| (c) the importance of diffusion to the organism in terms of gas exchange.  | <input type="checkbox"/> | Credit  |
| (d) examples of substances which enter and leave the cell by diffusion, e.g. oxygen, CO <sub>2</sub> water and dissolved food. | <input type="checkbox"/> | General |
| (e) that the cell membrane controls the passage of substances into and out of a cell.  | <input type="checkbox"/> | General |
| (f) the main features of osmosis in plants and animals.  | <input type="checkbox"/> | General |
| (g) the meaning of osmosis in terms of a selectively permeable membrane and of a concentration gradient.                       | <input type="checkbox"/> | Credit  |
| (h) osmosis as a special case of the diffusion of water.   | <input type="checkbox"/> | General |
| (i) osmotic effects in plant and animal cells in terms of the concentration of water in the solutions involved.                | <input type="checkbox"/> | Credit  |

**Homework**

**End of Topic Test**