Edexcel iGCSE Biology Checklist

Section C11: Transport in Plants

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| ***I can***  | ☺ | 😐 | ☹ |
| understand definitions of diffusion, osmosis and active transport |  |  |  |
| understand that movement of substances into and out of cells can be by diffusion, osmosis and active transport |  |  |  |
| **understand the importance in plants of turgid cells as a means of support** |  |  |  |
| understand the factors that affect the rate of movement of substances into and out of cells, to include the effects of surface area to volume ratio, temperature and concentration gradient |  |  |  |
| describe experiments to investigate diffusion and osmosis using living and non-living systems. |  |  |  |
| **describe the role of phloem in transporting sucrose and amino acids between the leaves and other parts of the plant** |  |  |  |
| describe the role of xylem in transporting water and mineral salts from the roots to other parts of the plant |  |  |  |
| explain how water is absorbed by root hair cells |  |  |  |
| understand that transpiration is the evaporation of water from the surface of a plant |  |  |  |
| explain how the rate of transpiration is affected by changes in humidity, wind speed, temperature and light intensity |  |  |  |
| describe experiments to investigate the role of environmental factors in determining the rate of transpiration from a leafy shoot |  |  |  |
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