IB Biology

## Topic 9 – Plant Biology HL

**Revision Sheet** 

Transport in the xylem		Draw a labelled diagram of the structure of a 'primary xylem' cell. De		Descri
<ul> <li>What are the two properties of v         <ul> <li>What are the two properties of v</li> <li>What are the two properties of v</li> <li>What does active transport in row water from the soil into root cell</li> </ul> </li> </ul>	ot hair cells do that promotes inward osmosis of			rate of Water of Disk of filter Capilla
Transport in the phloem         Explain why each of the following is important in the translocation of organic compounds like sucrose.         • The incompressibility of water         • Hydrostatic pressure gradients         • High concentration of solutes at source         • Water uptake by osmosis			Identify xylem & phloem in the shoot image b Clover stem Trifolium sp.	elow.
Growth in plants         Auxin is a plant growth substance which causes         Micropropagation is         Mitosis promotes growth by increasing         Describe the two phytochromes which help a plant to switch to flowering in response to light and dark.			What effect does the alteration of gene expression	ssion  
Reproduction in plants Complete the right hand side of the "half view" (cross section) of a flower Complete the right hand side of the "half view" (cross section) of a flower & label it.	Compare & contrast pollination and fertilization          Pollination       Fertilization		mutualistic relationship can help fertilization	s to





