

Bioflix Study Sheet for Water Transport in Plants

Part I. Structures Involved in Water Transport in Plants. Describe the role of each of the following structures in water transport.

Structure	Role
Roots	
Root hairs	
Waxy barrier in the root	
Xylem	
Small pores in the leaves	

Part II. What is transpiration?

Part III. What is the difference between adhesion and cohesion? Give examples of each in plant water transport.

Part IV. What is the transpiration-cohesion-tension mechanism? How does this mechanism explain how water and soil nutrients move from the roots of a plant to its leaves?