**Citation:** Plant Transport: Xylem and Phloem, Transpiration [3D Animation]

Transpiration Video Guide/Data Analysis  
**NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Why is transpiration important for plants?

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1. What important chemical reaction occurs in the palisade mesophyll?

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1. Why is the loose arrangement of cells in the spongy mesophyll important?

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1. What are 2 functions of stomata?

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1. Describe the vascular tissue xylem. What does xylem transport within the plant?

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1. What is adhesion? Cohesion? How do adhesion and cohesion allow water to flow in a continuous stream?

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1. Why does water flow upward from the roots to the leaves?

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1. What does the vascular tissue phloem transport and where are these compounds/molecules produced in a plant?

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