

1. Draw and label xylem tissue



2. Draw and label phloem tissue



3. Transpiration happens in which plant tissue?

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4. Translocation happens in which plant tissue?

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5. Water is transported in which plant tissue?

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6. Sugar (sucrose) is transported in which plant tissue?

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7. The xylem transports which molecule?

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8. The phloem transports which molecule?

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9. In how many directions is water transported?

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10. In how many directions is sugar transported?

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11. Water is transported to and from which part of the plant

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12. Why does the xylem have no cytoplasm?

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13. Why does the phloem have little cytoplasm?

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14. What is the advantage for the phloem to have less cytoplasm than normal cells?

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15. Why do phloem cells have sieve tube cells with pores (holes) in them?

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16. Are phloem cells dead or living cells?

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17. Are xylem cells dead or living cells?

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18. What is the function of lignin in xylem cells?

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19. Explain how the xylem is adapted for transpiration

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20. Explain how the phloem is adapted for translocation

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