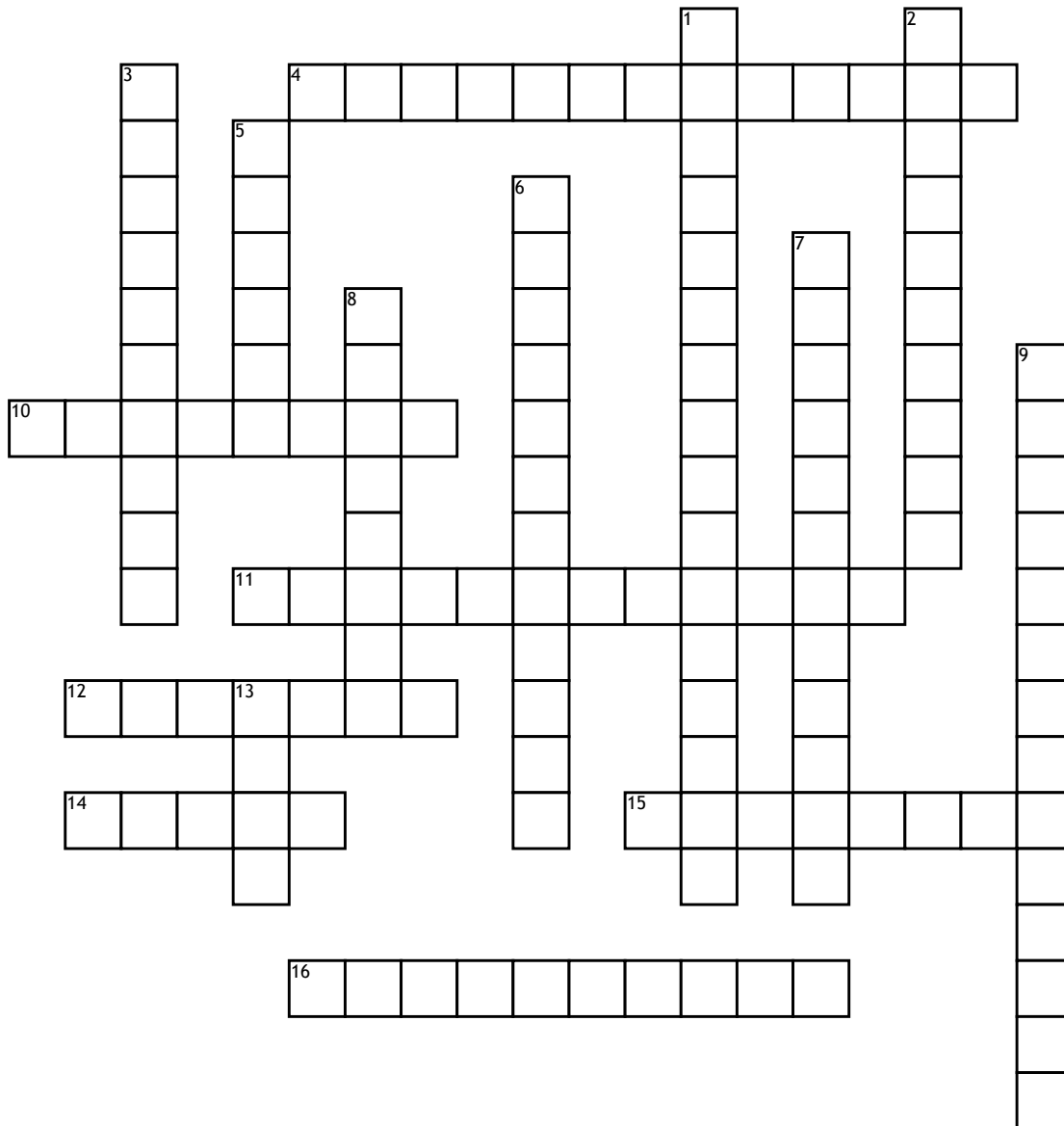


roots, water movement and flowers



Across

4. Evaporation of water vapor from plants.

10. The _____ of water molecules ensures that it is easy to pull up.

11. Xylem transports while phloem _____

12. Growth toward or away from a unidirectional stimuli

14. Secondary plant growth increases the plant's _____

15. The upward pulling of water is possible only if there is an _____ column of water in xylem cells.

16. Produces the first xylem and phloem cells.

Down

1. Translocation of sugars between source and sink is aided by _____

2. Water moves in a _____ direction from the soil into the plant.

3. The periderm is composed of cork cells, cork cambium and cork _____

5. Plant growth hormones situated in shoot and root tips.

6. Promote stem elongation

7. occurs as a result of mineral ions that are actively pumped into the xylem decreasing its water potential

8. _____ protect root apical meristems as the plant penetrates the soil

9. impermeable layer composed of lignin and suberin bordering endodermal cells.

13. centrally located part of the monocot root surrounded by vascular bundles.