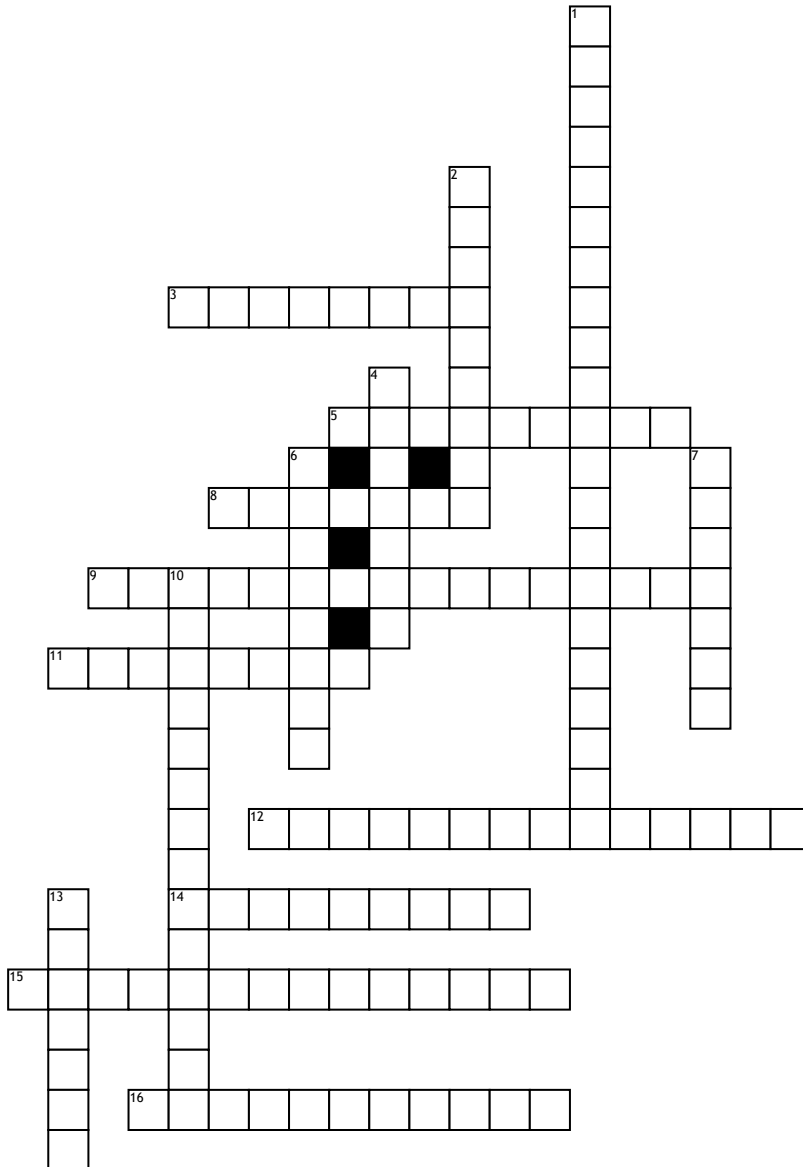


Root Anatomy



Across

3. Proper watering for most plants involves growing the plants in pots with proper _____ holes in the bottom of the pot
5. Hair-like projections that increase the surface area of the root and allow much more water and minerals to enter the plant.
8. A _____ root system should appear white or nearly white in color and smell fresh.
9. thin film of water that binds so tightly to the medium's particles that it cannot be used by the plants.

11. The exchange of gases in a medium.
12. Other roots that eventually branch out from the primary root.
14. The skin of cells that covers the surface of the root.
15. The tip of the root where new cells develop.
16. The first structure to emerge from the seed.

Down

1. The ability of soils to hold water.
2. A _____ root system appears black, brown, or dark orange and smells sour.

4. The apical meristem is covered by this to prevent damage.
6. Specialized type of root system.
7. A system that has no dominant primary root but is made of many primary and secondary roots of similar size is called a _____ root system.
10. Water that can be absorbed by the plants roots.
13. A root system that is composed of one main primary root and many secondary roots branching off of the primary root is called a _____ system