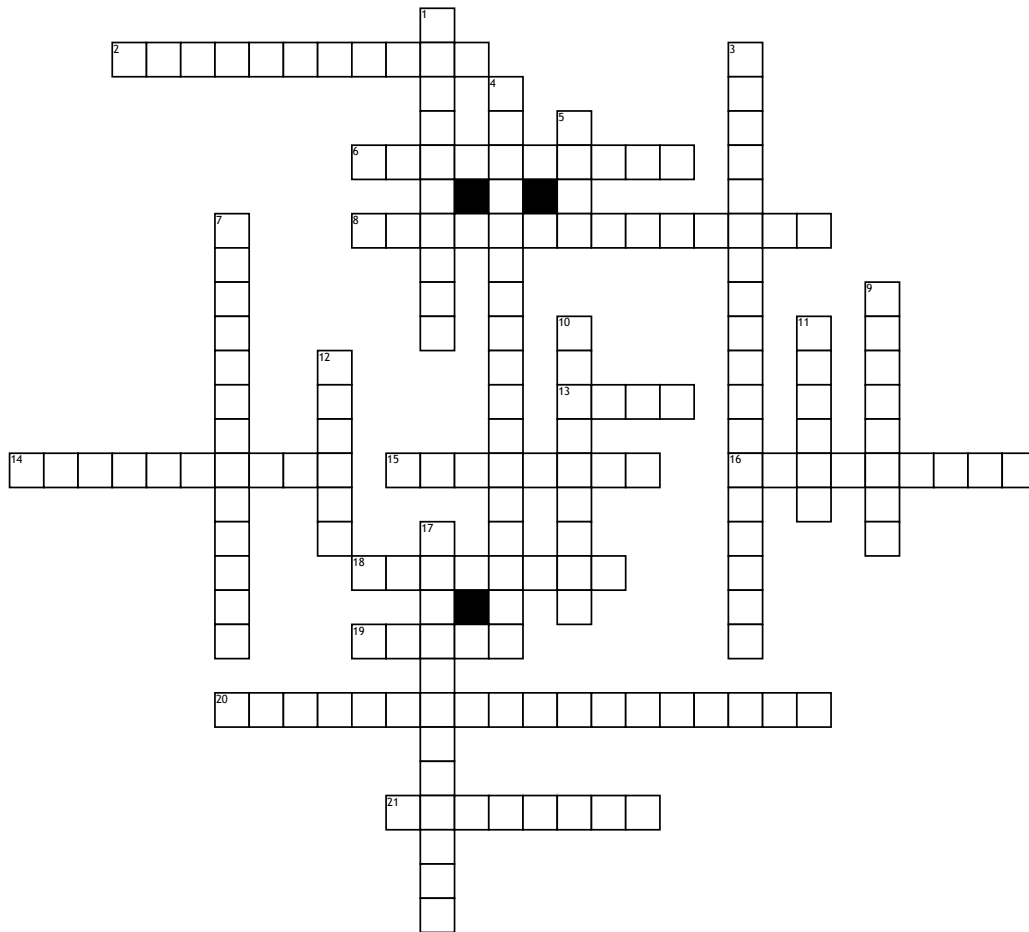


The Soil Game



Across

2. What soil organism establishes symbiotic relationship with trees roots and aids in nitrogen fixation?
 6. What can be used to correct soil nutrient deficiencies?
 8. What is an important property of soil that creates a chemical reaction between soil particles and plant roots?
 13. The weathering of ____ is the major source of all nutrient input into soils.
 14. What are soils that receive leached materials referred to as?
 15. Soil pH levels, cation exchange, and soil nutrients are types of _____ properties.
 16. What are soils that leach nutrients out referred to as?

18. Soil _____ transports nutrients to tree roots, and also influences temperature and aeration levels.

19. Soil _____ levels influence the distribution and growth of vegetation.

20. What can cause deformed branches, deformed leaves or stunted growth?

21. Soil is divided into a number of sections called _____?

Down

1. The level of water in soil can be at different levels; what occurs when all soil pores are full?

3. What is the greatest source of organic matter in forests?

4. What is the organic component of soil called?

5. What inorganic source of nitrogen can be used to improve soil acidity?

7. What are a vital component for tree growth and the development of forest soil?

9. What property of water helps in water retention in soils?

10. Soil _____ is the arrangement of soil particles based on their size and shape.

11. The mineral composition, SOM content and drainage levels determine what physical property of soils?

12. What is the typical pH of coniferous forests?

17. When there are no more water molecules in the pores, what is that referred to as?

Word Bank

| | | | | |
|---------------------|---------------------|---------------------|----------------|---------------|
| lime | structure | cation exchange | adhesion | horizons |
| eluviated | water | soil organic matter | colour | saturation |
| fertilizer | mycorrhizae | chemical | soil organisms | wilting point |
| nutrient deficiency | autumnal litterfall | illuviated | moisture | acidic |
| rock | | | | |