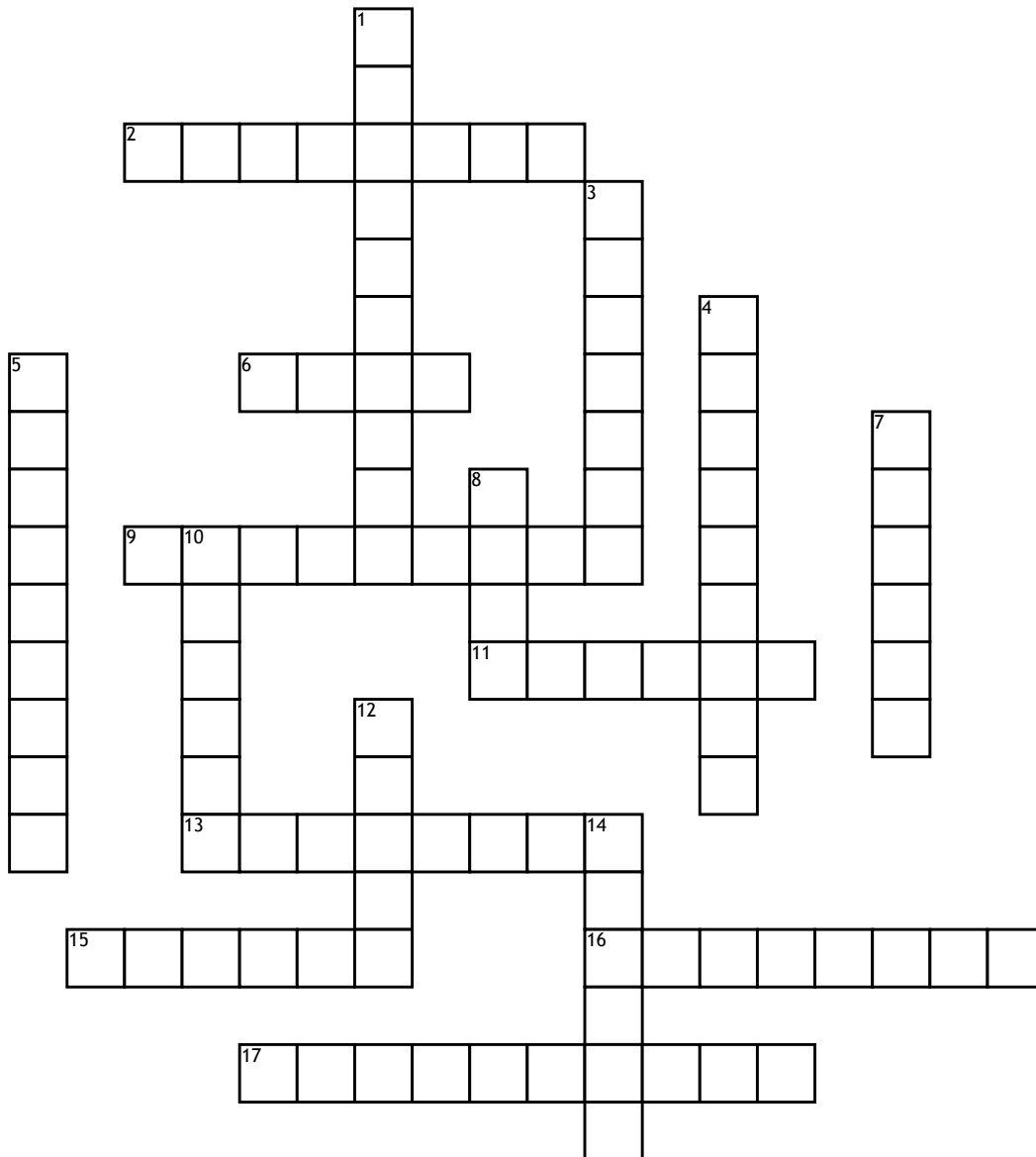


Soil Essential Elements



Across

2. A non-mineral nutrient needed to build sugars and the plant. Needed for photosynthesis and respiration.

6. Necessary for photosynthesis. Helps move oxygen through the plant.

9. Helps the plant fight disease to make energy from food. Helps the plant control water inside of them.

11. Regulates several plant enzyme systems. Necessary for protein synthesis. Necessary for nitrogen metabolism.

13. Helps plants gain energy through photosynthesis

15. A non-mineral nutrient needed to help transport and store energy within the plant. Helps with proteins and starches.

16. Plays a role in photosynthesis by assisting in the opening and closing of stomata.

17. Helps in the process of converting nitrates. Helps plants utilize phosphorus.

Down

1. Helps the plant with respiration, to use water, to store and move energy and to make flowers and fruits.

3. Helps transport other nutrients into the plant. Helps with photosynthesis. Helps with plant structure

4. Part of several plant enzyme systems. Important part of photosynthesis by regulating chlorophyll synthesis.

5. Important role in photosynthesis. Helps form chlorophyll. Helps form enzymes for carbon fixation.

7. Helps plants with the process to produce proteins. Helps plants resist diseases. Aids in growth and forming seeds. Helps plants with nitrogen fixation.

8. Needed to activate several enzymes. Essential in the formation of auxins which help growth regulation and stem elongation.

10. Is a Non-mineral nutrient needed for respiration.

12. Essential to the growth and development of new cells.

14. Assists the plant to metabolize urea nitrogen.