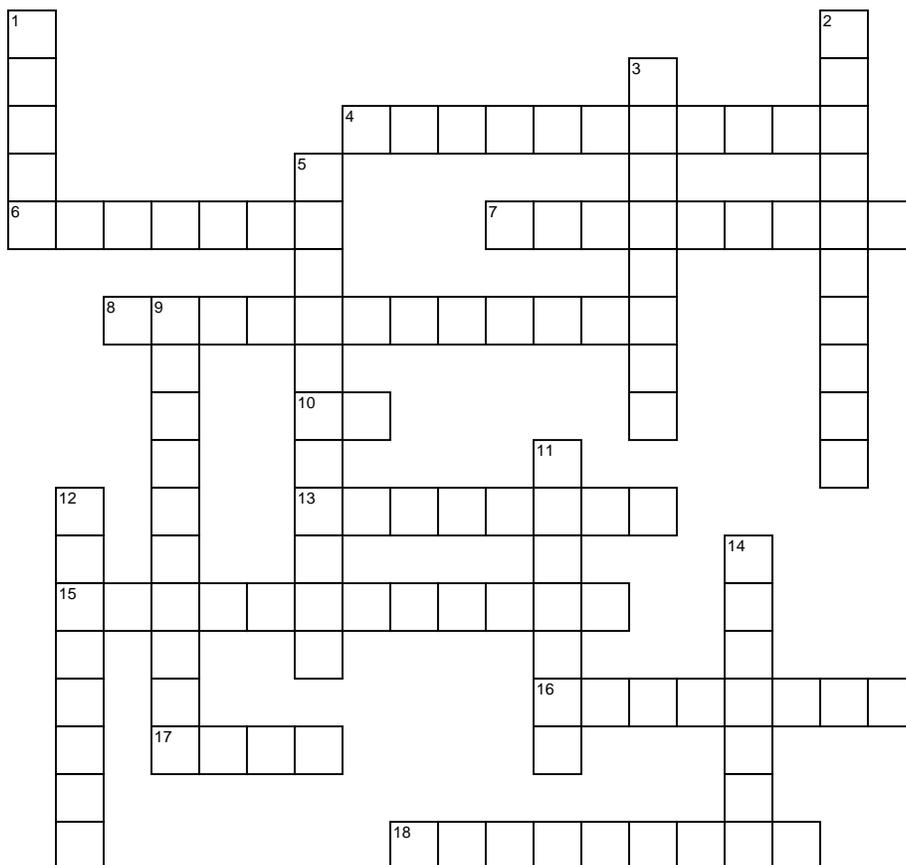


# Ag Technology -- Plants

## Lesson 3.2 -- Hydroponics



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### ACROSS

- 4 A mineral, or minerals, classified with the micas, which with treatment at high temperatures, expands into scales, and becomes a loose, absorbent mass.
- 6 Measure of hydrogen ions in a solution.
- 7 A hydroponic culture system that uses a media to absorb the nutrient solution and hold it for the plant.
- 8 (2 words) A hydroponic system where the roots are in constant contact with the nutrient solution where the media may not be as absorbent.
- 10 A numerical measure of acidity or hydrogen ion activity of a substance such as food or soil. The neutral point is pH 7.0. All pH values below 7.0 are acid and all above 7.0 are alkaline.
- 13 A popular water culture flow technique where the nutrient solution is continuously flowing at the tips of the plants roots set in a medium.
- 15 An electronic testing device used to measure the electrical conductivity.
- 16 A chemical term referring to a basic solution over a pH of 7.
- 17 The mineral and organic surface of the earth capable of supporting plants.
- 18 The amount of oxygen found in water or solution.

### DOWN

- 1 Soil or soil like material in which plants are grown.
- 2 A measurement of conductivity in hydroponics used to determine the amount of nutrient in solution that is available to a plant.
- 3 The minerals absorbed by plant roots and used for plant functions.
- 5 Growing plants in a nutrient solution and a media other than soil.
- 9 A system of hydroponics that involves misting of the roots with a nutrient solution.
- 11 Having neither acid nor alkaline qualities, pH of 7.
- 12 Fibers made of natural or synthetic minerals used as a media for growing plants in a hydroponic system.
- 14 A volcanic glass having numerous concentric cracks that give rise to perlite structure. Used in synthetic potting media mixes.