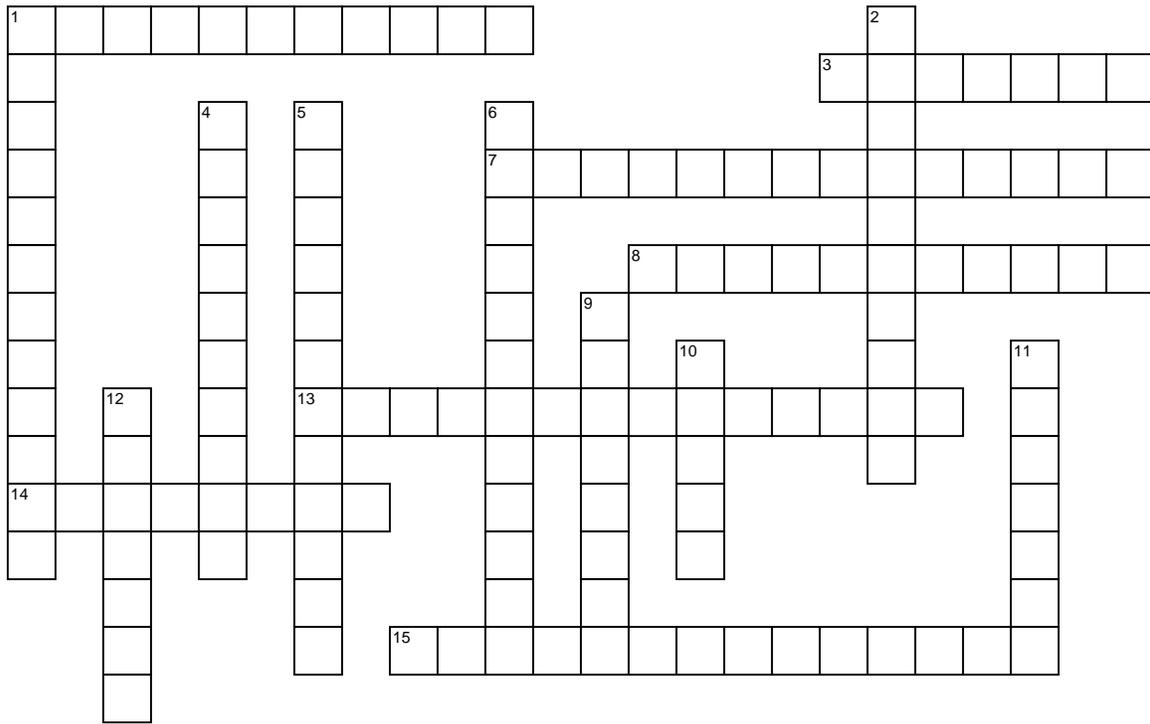


# Plants 6.3

## Lighting it up



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### ACROSS

- 1 – Length of the light period in a day.
- 3 – A plant in which the flowering period or some other process is not influenced by length of daily exposure to light.
- 7 – Process by which green plants, using chlorophyll and the energy of sunlight, produce carbohydrates from water and carbon dioxide, and release water.
- 8 – A substance present in all green plants; it evidences itself as the green coloring in leaves. Chlorophyll transforms light energy from the sun into chemical energy for the manufacture of plant food from carbon dioxide, water, and essential soil minerals.
- 13 – The reaction of plants to periods of daily exposure to light, which is generally expressed in formation of blossoms, tubers, fleshy roots, runners, etc.
- 14 – A plant in which the flowering period or some other process is accelerated by a relatively short daily exposure to light.
- 15 – A technique for identifying the components of chemical mixtures separated by preferential adsorption on an adsorbent medium.

### DOWN

- 1 – The response of a plant to the stimulus of sunlight in which the plant or its parts seem to turn to face the light. The parts of the plant receiving the direct rays grow more slowly and the plant appears to turn.
- 2 – A growth of shoots and roots of plants in response to the stimulus of gravity that is positive when the growth curvature is toward the center of the earth (as plant roots) or negative when the direction of growth is opposite to the pull of gravity (as plant shoots).
- 4 – Distance between consecutive crests of waves.
- 5 – Minute objects within plant cells which contain the green pigment, chlorophyll.
- 6 – An optical device for measuring wavelengths of light.
- 9 – The band or series of colors, together with invisible extensions, produced by dispersion of radiant energy, as by a prism.
- 10 – The form of radiant energy consisting of wavelengths that can be seen with the human eye.
- 11 – A plant in which the flowering period or some other process is accelerated by a relatively long, daily exposure to light.
- 12 – A growth reaction of a plant to various external or internal stimuli, such as phototropism, the increased growth toward or away from light; geotropism, growth in response to gravity; chemotropism, plant response to chemicals; hydrotropism, plant response to water.