

## Biology Worksheet 1

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Plant Nutrition

#### Multiple Choice Question

1. Photosynthesis is
  - a.the green material in plants that traps energy from sunlight and uses it to break down water molecules into atoms of hydrogen and oxygen.
  - b.the growth tissue that produces the xylem and phloem.
  - c.the process by which green plants use chemicals from the environment and energy from the Sun to make their own food.
2. Photosynthesis is an instance of
  - a.homeostasis.
  - b.reproduction.
  - c.metabolism.
  - d.growth and development.
3. The first step in photosynthesis is the
  - a.absorption of light energy.
  - b.synthesis of water.
  - c.production of oxygen.
  - d.formation of ATP.
4. In a typical plant, which factor is NOT necessary for photosynthesis?
  - a.chlorophyll
  - b.light
  - c.oxygen
  - d.carbon dioxide
5. Oxygen made during photosynthesis results from the
  - a.absorption of light.
  - b.splitting of water molecules.
  - c.mitochondrial membranes.
  - d.splitting of carbon dioxide molecules.

6. Many plants are excellent at photosynthesis because they
- a. have few mesophyll cells in their leaves.
  - b. are equipped with many leaves that have many mesophyll cells, which in turn have many chloroplasts.
  - c. are able to transform light energy into heat energy for cellular work.
  - d. can carry out photosynthesis in their roots, stems, flowers as well as their leaves.