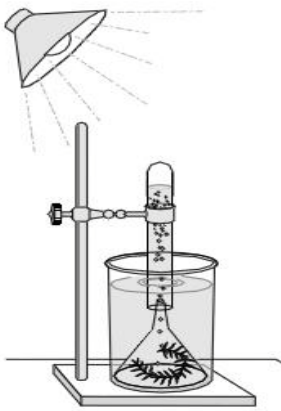


## Water/Photosynthesis Unit

1. Rate your understanding of best practices and how it relates to teaching science.
  - a. Poor
  - b. Fair
  - c. Adequate
  - d. Good
  - e. Excellent
2. I am adequately prepared to deliver instruction from this training to my students.
  - a. Poor
  - b. Fair
  - c. Adequate
  - d. Good
  - e. Excellent
3. Rate your understanding of the 7E model.
  - a. Poor
  - b. Fair
  - c. Adequate
  - d. Good
  - e. Excellent
4. Rate your ability to apply the 7E model to science instruction.
  - a. Poor
  - b. Fair
  - c. Adequate
  - d. Good
  - e. Excellent
5. Rate your understanding of inquiry-based science instruction.
  - a. Poor
  - b. Fair
  - c. Adequate
  - d. Good
  - e. Excellent
6. How are photosynthesis and cellular respiration similar?
  - a. They occur in animal cells.
  - b. They take place in the same organelle.
  - c. They involve the conversion of energy.
  - d. They produce the same complex carbohydrate.
7. What is formed during photosynthesis and broken down during cellular respiration?
  - a. Water
  - b. Glucose
  - c. Lactic acid
  - d. Carbon dioxide
8. Which process occurs in the chloroplasts of plant cells?
  - a. Reproduction
  - b. Photosynthesis
  - c. Protein synthesis
  - d. Cellular respiration
9. Which of the following is needed to transfer and release energy?
  - a. Nitrate
  - b. Calcium
  - c. Potassium
  - d. Phosphate
10. Where does the light independent reaction occur?
  - a. Stroma
  - b. Granum
  - c. Thylakoid membrane
  - d. Chloroplast membrane



11.

In the experiment above, which factor was most responsible for the production of oxygen by *Elodea*?

- Sugar was present in the liquid.
- The presence of light stimulated photosynthesis.
- The plant contained a large number of mitochondria.
- The liquid contained enough oxygen for the plant to absorb.

12. During photosynthesis, energy from the sun is trapped in –

- Enzymes.
- Golgi bodies.
- Chemical bonds.
- The nuclei of atoms.

13. The glucose produced during photosynthesis is an example of a –

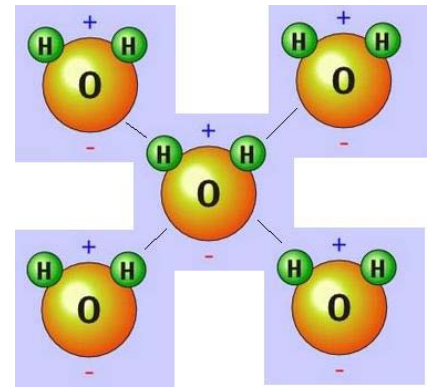
- Lipid.
- Protein.
- Nucleic acid.
- Carbohydrate.

14. Which of the following is produced during a light dependent reaction?

- O<sub>2</sub>
- ATP.
- NADPH
- All of the above

15. In the basic process of photosynthesis, light energy is converted to

- Thermal energy
- Electrical energy
- Chemical energy
- Mechanical energy



16. Which property of water is shown above?

- pH
- Polarity
- Adhesion
- Solubility

17. A person fills a drinking glass with water until the water is bulging slightly above the rim of the glass. Which property of water is most accurately demonstrated by this?

- pH
- Osmosis
- Cohesion
- Solubility

18. Which of the following statements are true?

- Adhesion is similar molecules clinging together
- Cohesion is similar molecules clinging together
- Adhesion and cohesion are the same thing.
- Water dissolves everything.

## Biology Module 1 Summative

### Pre/Post Test

1. Opinion
2. Opinion
3. Opinion
4. Opinion
5. Opinion
6. C
7. B
8. B
9. D
- 10.A
- 11.B
- 12.C
- 13.D
- 14.D
- 15.C
- 16.B
- 17.C
- 18.B