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

Remediation 2.1 AB- Photosynthesis and Cellular Respiration

Read pages 56-59 in your Integrated Science Textbook (Octopus book) and answer the following questions.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process that uses light energy from the sun, together with carbon dioxide and water, to make glucose and oxygen.
2. Which organisms go through photosynthesis? Plants or animals?
3. Energy from the sun is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy.
4. Another name for sugar is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. The primary role of photosynthesis is to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. What is a waste product of photosynthesis?
7. Write the equation for photosynthesis:
8. Photosynthesis changes light energy to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy.
9. Glucose is used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the cells of almost all living things.
10. What are the reactants (starting ingredients) of photosynthesis?
11. What are the products of photosynthesis?
12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a waste project of photosynthesis.
13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ need oxygen to live.
14. Without photosynthetic organisms like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, there would not be enough \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the atmosphere for animals to survive.
15. The glucose that has been made as part of the process of photosynthesis is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ process.
16. What are the ONLY required ingredients for photosynthesis?
17. These producers are changing the energy from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in to a usable form of energy.
18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process in which living things break down glucose with oxygen to produce carbon dioxide, water, and energy.
19. Every reaction that occurs in an organism’s cells, needs \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. Write the equation for Cellular Respiration:
21. Notice that this formula is almost reverse of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
22. The energy released is not light; it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy, which is used by the organisms for its life’s processes (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy).
23. Animals take in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy and convert it to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy and \_\_\_\_\_\_\_\_\_\_\_\_\_ energy.