**Review Photosynthesis 2**

**Light-Independent Reactions/ Calvin Cycle (Dark Reaction)**



**1.** Where does the Calvin cycle take place? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** Before the Calvin cycle begins, where is the energy stored? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**3.** What happens to CO2 in the Calvin cycle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**4.** What are the inputs to the Calvin cycle? Where do they come from? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**5.** Why are the reactions of the Calvin cycle also called the light-independent reactions?

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**6.** Circle the letter of each statement that is true about the Calvin cycle. Correct the false statements.

1. The main products of the Calvin cycle are six carbon dioxide molecules.
2. Carbon dioxide molecules enter the Calvin cycle from the atmosphere.
3. Energy from ATP and high-energy electrons from NADPH are used to convert 3-carbon molecules into similar 3-carbon molecules.
4. The Calvin cycle uses six molecules of carbon dioxide to produce a single 6-carbon sugar molecule.

**7.** What are the products of the Calvin cycle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**8.** What are three uses for glucose in a plant (FATES of glucose)?

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2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Review of Photosynthesis**