Discovery Education skill builder – Photosynthesis

**Introduction to Photosynthesis**

1. What is photosynthesis and how does it work?

**Site of Photosynthesis**

1. Where does photosynthesis take place in plants?
2. Why are most leaves flat?
3. Where are the openings and the names of the openings on a leaf that allow gases to enter and exit? Use the picture to draw and label location of opening.
4. In which part of the cell does photosynthesis happen?
5. Explain and illustrate the system within the leaves that transport the food produced by the plant?

**Reactants & Products**

1. What is the chemical formula for photosynthesis?
2. Where does photosynthesis begin?
3. What is the function of chlorophyll and chloroplasts within the plant?
4. What happens to the oxygen hat is made within the equation?

Sunlight:

1. Why do most plants appear green?
2. What parts of the visible spectrum does chlorophyll absorb?

Carbon Dioxide

1. Where does carbon dioxide enter the plant?
2. Why is carbon dioxide an essential component of photosynthesis?
3. Why do plants have a waxy coating?
4. Whey does the stoma have guard cells and how do they work?

Water:

1. What does water provide for making glucose?
2. What is the process that splits water into hydrogen and oxygen and what happens to the oxygen? Is this an open or closed system?
3. How does water enter the plant and leave the plant?

Sugar:

1. Light energy is trapped and converted to chemical energy called \_\_\_\_\_\_\_\_ glucose?
2. Why does the producer make large molecules?
3. Energy trapped in a usable form by producer is energy used by what?

Oxygen

1. Combines with what to make glucose?
2. What happens to the left over oxygen?
3. In aquatic autotrophs how does the oxygen leave?
4. Where is most of the oxygen produced on Earth?

Reactions:

1. What is photosynthesis broken down into?
2. What are the 2 types of reactions and where do they take place?
3. What is a light reaction and what does it convert?
4. Explain how the Calvin Cycle works”
5. Draw a picture of the reactions of photosynthesis using the picture shown. Label and show movement .

Answer the 5 questions under quiz.

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