

Bozeman Biology- Photosynthesis

Guided Viewing Worksheet

Name: _____

1: *What types* of organisms can do photosynthesis?

2: **Where** does it take place in Eukaryotic cells?

3: *What happens* in the Thylakoid membranes?

4: What is a stack of **Thylakoids** called?

5: What is the **Stroma**?

6: What color in the light spectrum does Chlorophyll (A and B) absorb? What colors are reflected?

7: What is the **equation for photosynthesis**? Explain all parts:

8: Carbon Dioxide is absorbed by plants through **holes in their leaves** called: _____.

9: Where do plants take in water?

10: *Why* do plants make Glucose? What do they use it for?

11: What does **“Photo”** and **“Synthesis”** mean?

12: What are the two cycles of photosynthesis? **Explain.**

13: What is created in the **light-dependent** reactions?

14: What is created in the **Calvin Cycle**?

15: What is the role of light in the light-dependent reactions?

16: What is the role of **Rubisco** in the Calvin Cycle?

17: What does **G3P** make?

18: What is **Photorespiration**? Why is it bad? What are G3 plants?

19: Why do plants close their stomata when it is hot?

20: What is the solutions to the problem with transpiration with **CAM plants**?

21: What do **C4 plants** do? What is an example of a common C4 plant?