QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

Photosynthesis

32 Questions

1. Select all that are products of Photosynthesis.

☐ a) Water
☐ b) Carbon Dioxide
☐ c) Oxygen
☐ d) Sunlight (Light Energy)
☐ e) Glucose (Sugar/food)

2. Is Glucose ($C_6H_{12}O_6$) a Raw Material (Ingredient) or Product of Photosynthesis?

☐ a) Product
☐ b) Raw Material
☐ c) Neither

3. Why do plants conduct photosynthesis?

☐ a) To make light
☐ b) To make mitochondria
☐ c) To make glucose
☐ d) To release carbon dioxide

4. How does most of the water needed by the plant get into its leaves?

☐ a) It enters through the stomata
☐ b) The roots absorb it and then it travels up the stem
☐ c) It's made during a chemical reaction in the leaf
☐ d) The flowers capture water and deliver it to the leaves

5. How does carbon dioxide get into the leaves of a plant?

☐ a) It's absorbed by the roots
☐ b) It's made in a chemical reaction in the stem
☐ c) It enters through the stomata
☐ d) It goes through the flowers

6. Which choice correctly shows the gases that enter and exit plants during photosynthesis?

- ☐ a) Enter: Oxygen
  Exit: Carbon dioxide
- ☐ b) Enter: Water vapor
  Exit: Glucose
- ☐ c) Enter: Carbon dioxide
  Exit: Oxygen
- ☐ d) Enter: Light
  Exit: Water vapor

7. Which of the following is the correct equation for PHOTOSYNTHESIS?

- ☐ a) light + carbon dioxide + water --> glucose + oxygen
- ☐ b) carbon dioxide + sugar + water --> oxygen + light
- ☐ c) oxygen + light + water --> carbon dioxide + sugar
- ☐ d) carbon dioxide + oxygen + water --> Light+ Sugar

8. _____ provides the energy necessary for photosynthesis.

- ☐ a) water
- ☐ b) sunlight
- ☐ c) glucose
- ☐ d) soil

9. the products of photosynthesis are...

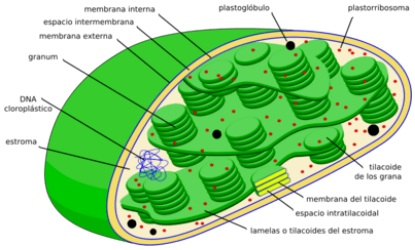
- ☐ a) glucose and sunlight
- ☐ b) carbon dioxide and water
- ☐ c) glucose and chlorophyll
- ☐ d) oxygen and glucose

10. The vascular tissue of the plant that transports water is the...

- ☐ a) roots
- ☐ b) phloem
- ☐ c) xylem
- ☐ d) stem

11. The formula for glucose is...

- ☐ a) $C_{12} H_{22} O_{11}$
- ☐ b) NaCl
- ☐ c) NaOH
- ☐ d) $C_6 H_{12} O_6$

12. 

This is ...

- [ ] a) mitochondria
- [ ] b) chloroplast
- [ ] c) cell
- [ ] d) phloem

13. What opens and close the stomata?

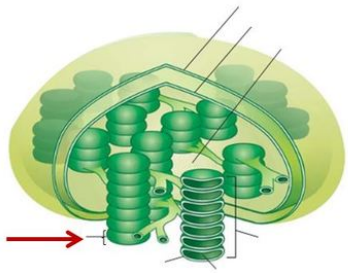
- [ ] a) guard cells
- [ ] b) xylem
- [ ] c) phloem
- [ ] d) cuticle

14. what is the major photosynthetic region of the leaf?

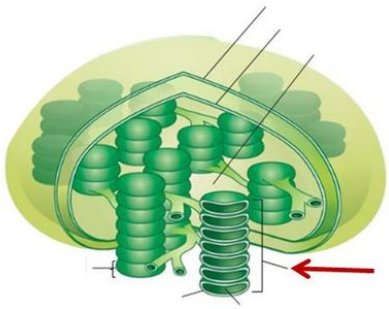
- [ ] a) palasade mesophyll layer
- [ ] b) spongy layer
- [ ] c) guard cells
- [ ] d) stomata

15. The fluid like substance found inside the chloroplast is called

- [ ] a) Cytoplasm
- [ ] b) Stroma
- [ ] c) Thykloids
- [ ] d) Cell Wall

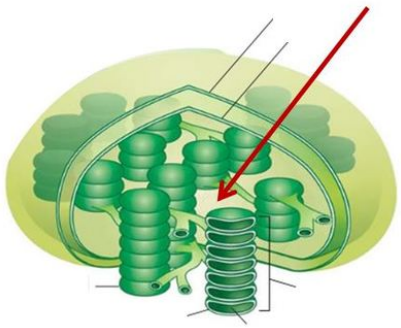
16. 

- [ ] a) Stroma
- [ ] b) Thylakoid
- [ ] c) Skittle
- [ ] d) Grana

17. 

- [ ] a) Flapjack Stack
- [ ] b) Grana
- [ ] c) Thylakoid
- [ ] d) Stroma

18.



- [ ] a) Grana
- [ ] b) Thylakoid
- [ ] c) Stroma
- [ ] d) Jelly Filling

19. What molecule absorbs sunlight for photosynthesis?

- [ ] a) chloroplast
- [ ] b) thylakoid
- [ ] c) grana
- [ ] d) chlorophyll

20. What gas is being released during photosynthesis

- [ ] a) sulfur
- [ ] b) carbon dioxide
- [ ] c) oxygen
- [ ] d) hydrogen

21. How does photosynthesis benefit heterotrophs?

- [ ] a) It adds carbon dioxide to the air.
- [ ] b) It creates a source of energy they can eat.
- [ ] c) It creates clean water.
- [ ] d) It eliminates harmful sugars.

22. carries food from leaves to other parts of the plant

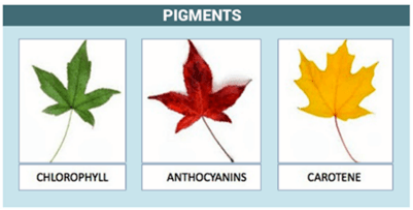
- [ ] a) xylem
- [ ] b) phloem
- [ ] c) ovary
- [ ] d) pistil

23. The openings on the bottom of leaves, which allow in CO2 (carbon dioxide) and releases O2 (oxygen) is the

- [ ] a) stomata
- [ ] b) xylem
- [ ] c) Phloem
- [ ] d) Mesophyll

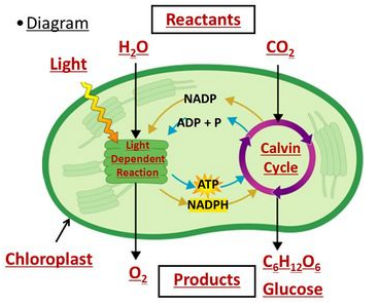
24. Most plants appear green because chlorophyll

- ☐ a) absorbs green light.
- ☐ b) absorbs violet light.
- ☐ c) reflects green light.
- ☐ d) does not absorb violet light.

25. 

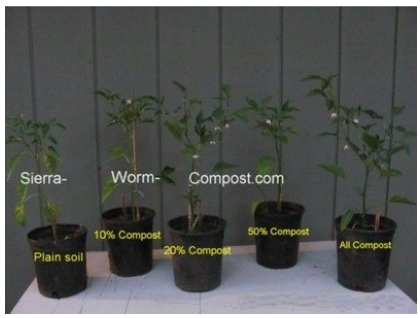
What do pigments do?

- ☐ a) Absorb specific wavelengths(color) of visible light for energy.
- ☐ b) Absorb CO_2 in the Stroma to create sugar.
- ☐ c) Transports e^- in the electron transport chain.
- ☐ d) Transports energy between plant cells.

26. 

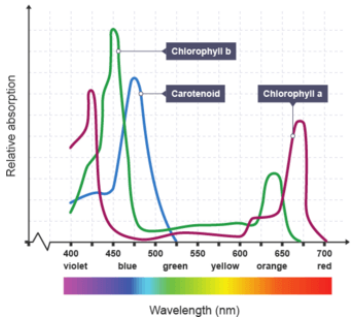
What are the two main energy carrying molecules used to create glucose?

- ☐ a) ADP and ADNH+
- ☐ b) ATP and NADPH
- ☐ c) Starch and Cellulose
- ☐ d) Glucose and Hydrogen

27. 

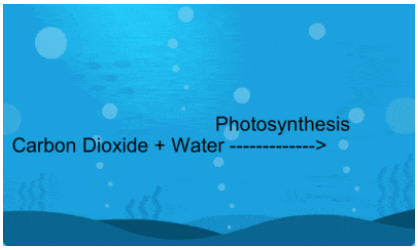
What molecule contributes to the majority of a plant's mass?

- ☐ a) Water
- ☐ b) Soil nutrients
- ☐ c) Carbon Dioxide
- ☐ d) Oxygen

28. 

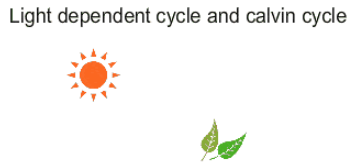
Which of the following statements is true about pigments?

- [ ] a) Chlorophyll is best at absorbing green and yellow light
- [ ] b) Chlorophyll a makes plants either violet or red
- [ ] c) Carotenoid is best at absorbing yellow, orange, and red light
- [ ] d) Carotenoid is best at absorbing blue-violet light

29. 

What is the function of ATP in photosynthesis?

- [ ] a) Absorbs light
- [ ] b) Powers the light reaction
- [ ] c) Reflects light
- [ ] d) Powers the dark reaction (aka Calvin cycle)

30. 

How many sugar molecules are produced from every six molecules of carbon dioxide that enter the Calvin cycle?

- [ ] a) 1
- [ ] b) 3
- [ ] c) 6
- [ ] d) 12

31.

Which of the following best describes photosynthesis?

- [ ] a) Photosynthesis converts light energy into chemical energy (glucose).
- [ ] b) Photosynthesis produces a variety of carbohydrates.
- [ ] c) Plants need oxygen to complete photosythesis
- [ ] d) Plants break down their food sources for energy

32. If carbon dioxide is removed from a plant's environment, what would you expect to happen to the plant's production of sugar (glucose)? (HINT: Think of what would happen if you removed an ingredient from a recipe!)

☐ a) MORE sugars will be produced

☐ b) The SAME NUMBER of sugars would be produced, but without Carbon Dioxide.

☐ c) FEWER will be produced

☐ d) the plant would not be affected in any way

Answer Key

1. c,e
2. a
3. c
4. b
5. c
6. c
7. a
8. b
9. d
10. c
11. d
12. b
13. a
14. a
15. b
16. b
17. b
18. c
19. d
20. c
21. b
22. b
23. a
24. c
25. a
26. b
27. c
28. d
29. d
30. a
31. a
32. c