|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Photosynthesis & Cellular respiration

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  C |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 2  A | L | C | O | H | O | L | I | C | F | E | R | M | E | N | T | A | T | I | O | N |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | B |  |  |  |  |  |  |  |
|  |  |  |  |  | 3  C | E | L | L | U | L | A | R | R | E | S | P | I | R | A | T | I | O | N |  |  |  |  |  |  |
|  | 4  P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N |  | 5  A |  |  |  |  |  |
|  | H |  |  |  |  |  |  |  |  |  |  |  | 6  A |  |  |  | 7  E |  |  |  |  | D |  | U |  |  |  |  |  |
|  | O |  |  |  |  |  |  |  |  |  |  |  | T |  |  |  | L |  |  | 8  T |  | I |  | T |  |  |  |  |  |
|  | T |  |  |  |  |  |  |  |  |  | 9  A | T | P |  | 10  H |  | E |  | 11  C | H | L | O | R | O | P | H | Y | L | L |
|  | O |  |  |  |  |  |  |  |  |  |  |  | S |  | E |  | C |  |  | Y |  | X |  | T |  |  |  |  |  |
|  | S |  | 12  L | I | 13  G | H | T | E | N | E | R | G | Y |  | T |  | T |  |  | L |  | I |  | R |  |  |  |  |  |
|  | Y |  |  |  | L |  |  |  |  |  |  |  | N |  | E |  | R |  |  | A |  | D |  | O |  |  |  |  |  |
| 14  E | N | E | 15  R | G | Y |  |  |  |  |  | 16  W | A | T | E | R |  | O |  |  | K |  | E |  | P |  |  |  |  |  |
|  | T |  | E |  | C |  |  |  |  |  |  |  | H |  | O |  | N |  |  | O |  |  |  | H |  |  |  |  |  |
|  | H |  | A |  | 17  O | X | Y | G | E | N |  | 18  L | A | C | T | I | C | A | C | I | D |  |  | S |  |  |  |  |  |
|  | E |  | C |  | L |  |  |  |  |  |  |  | S |  | R |  | A |  |  | D |  |  |  |  |  | 19  N |  |  |  |
|  | S |  | T |  | Y |  | 20  G | L | U | 21  C | O | S | E |  | O |  | R |  |  | 22  S | T | O | M | 23  A | T | A |  |  |  |
|  | I |  | A |  | S |  |  |  |  | H |  |  |  |  | P |  | R |  |  |  |  |  |  | N |  | D |  |  |  |
|  | S |  | N |  | I |  |  |  |  | L |  |  |  |  | H |  | I |  |  |  |  | 24  A |  | A |  | P |  |  |  |
|  |  |  | T |  | S |  |  | 25  P | H | O | T | O | S | Y | S | T | E | M |  |  |  | E |  | E |  | H |  |  |  |
|  |  |  | S |  |  |  |  |  |  | R |  |  |  |  |  |  | R |  |  |  |  | R |  | R |  |  |  |  |  |
|  |  |  |  |  |  |  | 26  C | Y | T | O | P | L | A | S | M |  | S |  | 27  A | C | H | O | L | O | L |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | P |  |  |  |  |  |  |  |  |  |  |  | B |  | B |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | L |  |  |  |  |  |  |  |  |  |  |  | I |  | I |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 28  G | R | A | N | A |  |  |  |  | 29  K | R | E | B | S | C | Y | C | L | E |  |  |  |
|  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 30  M | I | T | O | C | H | O | N | D | R | I | A |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **2.** type of respiration without oxygen used by organisms such as yeast  **3.** The opposition of photosynthesis  **9.** Adenosine triphosphate  **11.** Absorbs light energy, pigment that it's green color  **12.** Energy used by plants to produce their own food  **14.** Ability to do work  **16.** H2O  **17.** O2  **18.** Too much exercise and not enough oxygen can cause  **20.** C6H12O6  **22.** tiny holes in the leaves where carbon dioxide and oxygen enter and exit  **25.** Light collecting units of the chloroplast  **26.** Place where cells perform glycolysis  **27.** Fermentation with yeast makes  **28.** Thylakoids are stacked=  **29.** takes glycolysis to produce carbon dioxide and high energy electrons  **30.** Organelle found in all organisms that is the site of aerobic cellular respiration | **Down**  **1.** CO2  **4.** Makes glucose from sunlight  **5.** Organisms that use light energy from the sun to produce food  **6.** protein that uses energy from H+to form ATP and ADP  **7.** Carry the high energy electrons  **8.** Chloroplasts contain sac like structures called  **10.** Obtain energy from the foods they consume  **13.** Step on in cellular respiration-split glucose  **15.** The starting material in a chemical reaction  **19.** NADP+ becomes  **21.** green pigment  **23.** Respiration without oxygen  **24.** with oxygen |