

Photosyntesis and cellular respiration worksheet

Match the phrases on the left with the term that best fits. Use answers only one time

K_1. Organisms that make their own food	A. Chloroplasts
A_2. Site of photosynthesis	B. Chemical
L_3.Process occurs in a mitochondrion	C. Aerobic
E_4.Light absorbing molecule in the chloroplast	D. ATP
B_5.Light energy is converted into energy during photosynthesis	E. Chlorophyll
C_6. Process requires oxygen	F. Photosystem
J_7.Gas used by plants in the light-independent reactions	G. Oxygen
D_8.Energy storing molecule of the cell	H. Glyeolysis
H_9.The anaerobic process of splitting glucose and forming two molecules of pyruvic acid	I. Heterotrophs
I_10.Organisms that do not make their own food	J. Carbon Dioxide
G_11.Gas used by organisms for aerobic respiration	K. Autotrophs
F_12.Arrangement of light-catching pigments within the chloroplast	L.Cell Respiration

Directions: Answer each of the following questions in a clear and concise manner.

1. Describe in your own words what cell respiration is and why it is needed.

Cellular respiration is the process by which chemical energy stored in glucose is released and captured as ATP. Cellular respiration is needed since ATP is a useable form of energy storage.

2. Write the equation for cell respiration in word form and molecular formula



Glucose + oxygen gas  water + carbon dioxide + ATP

3. when and why does our body use lactic acid fermentation

Our body utilizes lactic acid fermentation primarily during intense physical activity when there is an insufficient supply of oxygen to meet the energy demands of our cells. This anaerobic process helps produce energy quickly without relying on oxygen.