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## **Campbell Biology in focus, 3rd edition Final Study Guide with Guided Question & Answers 2023 APPROVED**

cell respiration equation correct answers  $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + ATP$

NAD<sup>+</sup> vs NADH correct answers NADH does have electrons (has electrons are with it)  
NAD<sup>+</sup> does not have electrons (electron carrier)

Location of glycolysis, formation of acetyl CoA, citric acid cycle, and ETC correct answers Cytosol (glycolysis) and mitochondrial matrix (rest)

Substrate level phosphorylation correct answers When a phosphoryl group is transferred from a substrate to ADP or GDP to form ATP or GTP, coupled with the release of free energy.

Glycolysis end products correct answers two pyruvate (pyruvic acid) molecules, a total of four ATP molecules, and two molecules of NADH.

Formation of acetyl-CoA correct answers oxidative decarboxylation of pyruvate from glycolysis, which occurs in mitochondrial matrix, by oxidation of long-chain fatty acids, or by oxidative degradation of certain amino acids.

Glycolysis = 2 pyruvate (every stage after ward is X 2) correct answers  $Glucose + 2 NAD^+ + 2 ADP + 2 P_i \rightarrow 2 Pyruvate + 2 NADH + 2 H^+ + 2 ATP + 2 H_2O$

Citric acid cycle correct answers A series of chemical reactions to release stored energy through the oxidation of acetyl-CoA derived from carbohydrates, fats, and proteins.

Food  $\rightarrow$  NADH  $\rightarrow$  ETC  $\rightarrow$  Oxygen correct answers Aerobic respiration

Role of oxygen in cellular respiration correct answers serves as the final electron acceptor of the electron transport chain facilitating the movement of electrons down the chain hence producing the ATP or adenosine triphosphate.

Proton (H<sup>+</sup>) gradient in ETC correct answers Used to synthesize ATP

Muscle cells  $\rightarrow$  lactate without oxygen correct answers Lactic acid fermentation without oxygen present

Yeast and alcohol fermentation correct answers Yeast cells convert cereal-derived sugars into ethanol and CO<sub>2</sub>

Allows the production of ATP

Light reaction of photosynthesis (role) correct answers Capture energy from sunlight

Take place in thylakoid membrane

Make ATP and NADPH that are used to fuel the Calvin Cycle

Green light is reflected (plants look green) correct answers They do not absorb the green light, therefore it is reflected

# Campbell Guided Answers

**Exam**



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### **Campbell Guided Answers :**

Kinetic and Potential Energy Worksheet KEY  $g=9.8$  Calculate it. 21. Determine the kinetic energy of a 1000-kg roller coaster car that is moving with a speed of 20.0 m/s. 22. KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec?  $KE = \frac{1}{2} m v^2$   $\frac{1}{2} (1 \text{ kg}) \dots$  Kinetic Energy (KE) =  $\frac{1}{2}$  mass times velocity squared Potential and Kinetic Energy Worksheet. Kinetic Energy (KE) =  $\frac{1}{2}$  mass times velocity squared.  $KE = \frac{1}{2} m v^2$ . Potential Energy (PE) = mass times the acceleration ... Kinetic and potential energy worksheet answer key o myaiu kinetic and potential energy worksheet classify the following as type of potential energy or kinetic energy (use the letters or bicyclist pedaling up ... Kinetic and Potential Energy Worksheet Walkthrough - YouTube kinetic and potential energy worksheet Flashcards A. How much kinetic energy does the ball have? B. How much potential energy does the ball have when it reaches the top of the ascent? KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? Kinetic vs Potential Energy Practice KEY Page 1. Scanned by CamScanner. Page 2. Scanned by CamScanner. Potential and kinetic energy worksheet and answer key This easy to read, one page passage about potential energy :explains potential energy as stored energygives examples such as a car ... Kawasaki Mule 3010 Trans 4x4 Utility Vehicle Wiring ... Kawasaki Mule 3010 Trans 4x4 Utility Vehicle Wiring Diagram Pdf Manual ... INTRODUCTION Kawasaki Mule 3010 Trans 4x4 Utility Vehicle Wiring Diagram Pdf Manual Pdf ... Mule 3010 4X4 PARTS DIAGRAM Mule 3010 4X4 PARTS DIAGRAM. Chassis Electrical Equipment. © 2023 Kawasaki Motors ... WIRE-LEAD,BATTERY(+) (Ref # 26011). 26011-1780. 1. WIRE-LEAD,BATTERY(-) (Ref ... Kawasaki MULE 3010 TRANS 4x4 Service Manual MULE 3010 TRANS 4 × 4 Utility Vehicle Service Manual Quick Reference Guide This quick reference guide will assist you in locating a desired topic or ... Mule manual 1 This Owner's. Manual contains those maintenance recommendations for your vehicle. Those items identified by the

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