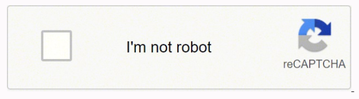

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Virtual lab enzyme controlled reactions worksheet key

Skill Practice 30

Mole Conversion Practice

Name: ______________ Date: ______________ Hour: _____

1. Calculate the number of molecules in 210 grams of water.

   7.02×10^{24} molecules

2. If you have 6.25×10^{24} molecules of sulfur tetrafluoride, how many grams do you have?

   1120 g

3. Define what a mole is. Don't give a number, give a definition in words.

   The quantity of atoms needed to equal the substances atomic mass in units of grams.

4. What is the mass of 3.45 moles of aluminum sulfate?

   1180 g

5. Consider zinc acetate and find its "formula mass" and its "molar mass". Include units for each.

   Formula mass: 183.4 amu   Molar mass: 183.4 g/mol

6. If you have 245 grams of lithium carbonate, how many moles do you have?

   3.32 mol

7. How many gold atoms do you have if you have 400 grams of gold?

   1.22×10^{24} atoms

8. 68.5 grams of a certain compound contains 5.25×10^{23} molecules. What is the molar mass of the compound?

   78.5 g/mol

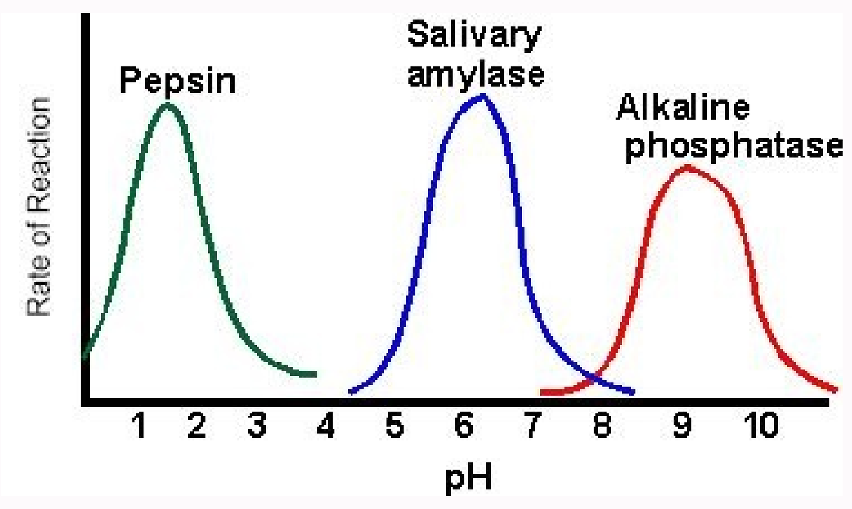
9. How many grams are there in a container of 2.26×10^{22} molecules of dinitrogen trisulfide?

   4.678 g

10. How many molecules are in 325 g of N_2O_5?

    1.81×10^{24} molecules

Skill Practice 31



Cellular Respiration Worksheet

1. What are the 3 phases of the cellular respiration process?

   Glycolysis, Krebs Cycle, Electron Transport

2. Where in the cell does the glycolysis part of cellular respiration occur?
   in the cytoplasm

3. Where in the cell does the Krebs (Citric Acid) cycle part of cellular respiration occur?
   in the mitochondria

4. Where in the cell does the electron transport part of cellular respiration occur?
   in the mitochondria

5. How many ATP (net)are made in the glycolysis part of cellular respiration?
   2 (net)

6. How many ATP are made in the Kreb's cycle part of cellular respiration?
   2

7. How many ATP are made in the electron transport part of cellular respiration?
   32 – 34

8. In which phase of cellular respiration is carbon dioxide made?
   Krebs Cycle

9. In which phase of cellular respiration is water made?
   Electron Transport

10. In which phase of cellular respiration is oxygen a substrate?
    Electron Transport

11. In which phase of cellular respiration is glucose a substrate?
    Glycolysis

12. On average, how many ATP can be made from each NADH during the electron transport process?
    3

13. On average, how many ATP can be made from each $FADH_2$ during the electron transport process?
    2

14. What would happen to the cellular respiration process if the enzyme for one step of the process were missing or defective?
    The entire process beyond that point could not happen.

15. What happens to the high-energy electrons (and hydrogen) held by NADH if there is no O_2 present? If no oxygen is present, the pyruvic acid must take the electrons (and their hydrogens) back.

Biology 12   Name: ________________
Ms. Kuiper   Blk: _____

Enzyme Review Worksheet

Part A: Define the following terms in your own word. Be clear and concise!

metabolism	ALL THE CHEMICAL REACTIONS OCCURRING IN THE CELLS
substrate	THE REACTANTS IN AN ENZYMATIC REACTION
enzyme	PROTEIN THAT SPEEDS UP A REACTION WITH BEING USED UP
active site	THE SPOT ON THE ENZYME WHERE THE SUBSTRATES BIND TO IT
coenzyme	THE NON-PROTEIN PART OF THE ENZYME THAT ACCEPTS OR DONATES ATOMS
metabolic pathway	THE SERIES OF REACTIONS GOING FROM INITIAL REACTANTS TO FINAL PRODUCTS
activation energy	THE AMOUNT OF ENERGY NEEDED TO GET A REACTION STARTED

Part B: Short Answers

1. The equation $ADP + P_i \rightarrow ATP$ is energy (*requiring or releasing*) _**REQUIRING**___________.
2. In the pathway below, the letters stand for ___**REACTANTS**______and the numbers stand for ___ENZYMES_____. Each and every reaction in a cell requires a specific __**ENZYME**______.

   A ⇨(1) B ⇨(2) C ⇨(3) D ⇨(4) E

3. If an enzymatic reaction is heated *gently*, it will ____**OCCUR MORE QUICKLY**______.
4. Enzymes _**DECREASE**_______the amount of activation energy necessary for a reaction to take place by putting its substrates on a precise "collision course."
5. In the equation $S + E \rightarrow SE \rightarrow P + E$, what do the letters stand for?
   S: **SUBSTRATE**   P: **PRODUCT**
   SE: **SUBSTRATE – ENZYME COMPLEX**   E: **ENZYME**
6. Name two environmental factors that can change the shape of an enzyme.
   i. **pH**   ii. **TEMPERATURE**
7. Name two factors that can speed up enzymatic reactions
   i. **INCREASED CONCENTRATION**   ii. **INCREASED TEMPERATURE (TO A POINT)**
8. Enzymes have helpers called __**COENZYME**__. A common example of the latter is NAD. What is the function of NAD in cells?_**PARTICIPATES IN OXIDATION-REDUCTION REACTIONS**_.

Virtual lab enzyme controlled reactions worksheet answer key. Types of reactions virtual lab answer key.

3) Click on the information buttons at the bottom of the page. Substrate (s) is turned on the active location 2. inorgain 3. Which of the following options would be most effective as a feedback mechanism? Catalyst 2. A change in pH 1. Which of the following options does not apply to an enzyme: 1. Reserve a few minutes to read some basic information on the action of the enzyme. Greater concentration of display display 4. Thank you for your participation! In this experiment, you should maintain the pH of each test tube in a constant noisy (pH 7). Key of Enzymes 1.

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in click on TV/VCR to watch a brief video about enzyme. 5) Why are we keeping the pH constant for this judgment? Follow the instructions provided below to browse the site. Reduced concentration of product available 3. Reduced concentration of substrate available 2. The shape of the enzyme remains unchanged 4. Record the purpose and objectives IN YOUR OWN WORDS in the space below: Purpose: ____ ____ Objectives: A. This will take you to McGraw Hill Virtual Enzyme Catalysis Lab. The enzyme is consumed by reaction 1. All options above apply to an enzyme 1. which of the following options would interfere with the ability of a enzyme to catalyze a reactions ? Add the different quantities of substrate (0.5, 1.0, 2.0, 4.0 and 8.0 grams) to test the 1-5 tubes. Feedback mechanisms regulate of enzyme activity, effectively turning on a reversible enzyme that more products are needed. 4) Procedure - Part A: In this part of the experiment, you will be testing the effects of the amount of substrate on the speed of reaction. Increased substrate concentration 3. An enzyme of lactase can catalyze many reactions s ANSWER Keybology Name: Name: Date: _________________ Pernode: ____ Virtual Laboratory: Reajações Controlled by Enzymes Instruction: Enter the following link: . Which of the following statements is accurate in the description of lactase enzyme activity? 6) Declare a hypothesis for this judgment in "If ... after" of the format. A change in pH 4. Summates the containing of the vamous in the three sentences. Lactase Ã© convertida em glicose e galactose pela reaÃ§Ã£o 4. ____ B. Durante a reaÃ§Ã£o 3. A lactase pode funcionar igualmente efetivamente em muitos nÃveis diferentes de pH 2. (ou seguir o link dos planos de Mr. Klepac's class) Pron © -Labraction: 1) On the left side of the screen, you will see the goal and objectives of the experiment. Protein 4. When an enzyme catalyzes a reaction: 1. 1.

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