Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ January 24, 2017 Period \_\_\_\_\_\_\_\_\_\_ Best Poster Choice \_\_\_\_\_\_

Biology

**Unit 4: Respiration and Photosynthesis**

Directions: Today we will gallery walk, and while you walk around the room looking at all of the posters I would like you to collect information on **ALL** of the phases of cellular respiration. Please make sure you are thorough and answer all of the questions, you will be graded on this sheet it will be turned in TODAY!

1. What is the purpose of cellular respiration as a whole? Why do all living things undergo this process?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. How much ATP is made through cellular respiration total, (glycolysis, Kreb’s, ETC)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Glycolysis**  | **Kreb’s Cycle**  | **ETC: Electron Transport Chain** |
| A. Where is it taking place?B. Is energy needed to start the reaction? C. If YES explain what?D. What are the **reactants** of Glycolysis?E. What are the **products** of Glycolysis?(2, 2, 2, )F. What does Glycolysis mean?**Glycolysis**  | A. Where is it taking place?B. Is energy needed to start the reaction? C. If YES explain what?D. What are the **reactants** of Kreb’s Cycle?E. What are the **products** of Kreb’s Cycle?*(There are 4. Make sure to give total amounts for 1 molecule of glucose)*F. Does Kreb’s require energy to get the reaction started?**Kreb’s Cycle** | A. Where is it taking place?B. Is energy needed to start the reaction? C. If YES explain what?D. What are the **reactants** of ETC?E. What are the **products** of ETC?**ETC: Electron Transport Chain** |
| F. Where does NADH, and Pyruvic Acid go after Glycolysis? Explain G. Is Glycolysis **anaerobic** or an **aerobic** process? | G. Does the Kreb’s cycle turn once or twice explain? H. Is Kreb’s Cycle **anaerobic** or an **aerobic** process?I. CO2 is made in Kreb’s where does it go? | F. Is the ETC an **aerobic** process or **anaerobic**?Prove it : how do you knowG. How many ATP are created from every NADH?H. How many ATP are created from every FADH2? |