Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 4: Cellular Energy***-Lesson 8*

**Cellular Respiration Review Sheet**

1. Write the balanced equation for cellular respiration below:

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

1. List the reactants and products of cellular respiration.

**Reactants** **Products**

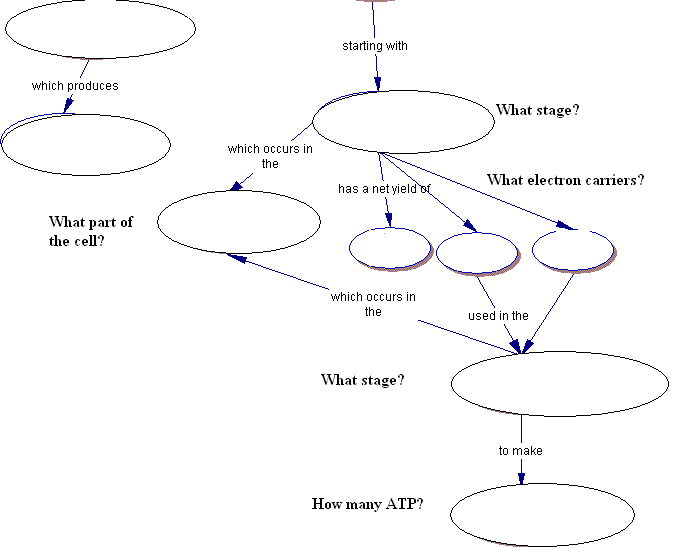
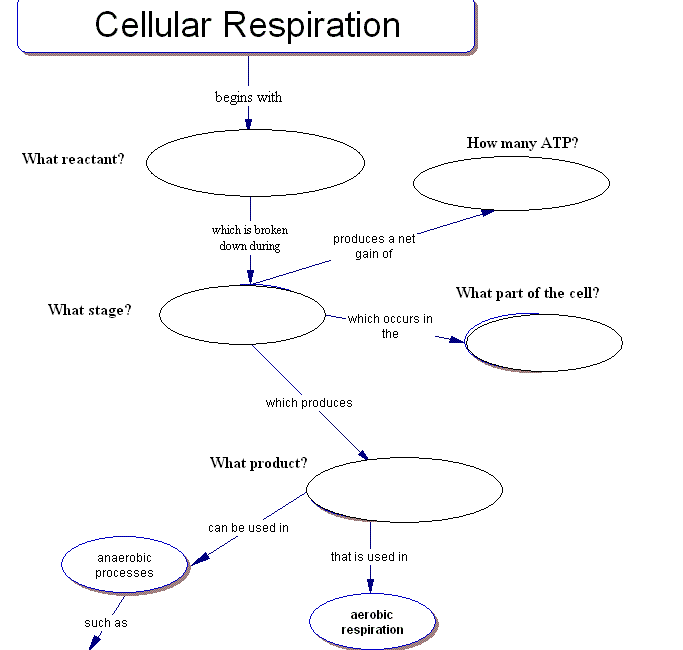
1. List the three stages of cellular respiration in order:

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1. How many ATP are produced in each of the three stages?
   1. Glycolysis= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Krebs cycle= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Electron transport chain= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Complete the chart below with information about anaerobic and aerobic respiration.

|  |  |  |
| --- | --- | --- |
|  | **Anaerobic Respiration** | **Aerobic Respiration** |
| *Does this type of respiration require oxygen?* |  |  |
| *Which of the three stages is/are this type of respiration?* |  |  |
| *In what part of the cell does this type of respiration occur?* |  |  |

1. Some organisms produce energy in oxygen-free (no oxygen) environments. What process do they use—anaerobic or aerobic respiration? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_How many ATP are produced? \_\_\_\_\_\_\_\_\_\_
2. What process follows glycolysis when oxygen is not present? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is produced during this process that can cause a burning feeling in muscles? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Complete the concept map below using the word bank.



**Word Bank** (each word only used once)

**2 ATP 2 ATP 32 ATP 8 NADH 2 FADH2 Electron transport chain Mitochondria**

**Cytoplasm Fermentation Glycolysis Glucose Pyruvate Lactic acid Krebs Cycle**