**Cellular Respiration WebQuest** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk \_\_\_\_ # \_\_\_

Go to [Peason: Cellular Respiration Active Art Assessment (http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3091&area=view)](http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3091&area=view) to start an animation on aerobic cellular respiration. Set the oxygen level on HIGH. While viewing the animations, answer to the following questions.

**STEP ONE**

1. What is the first step of aerobic cellular respiration?
2. How many ATP are used to fuel the process of glycolysis?
3. How many NADPH are produced?
4. During glycolysis, how many ATP are produced? Therefore, how what is the ATP net total? (Hint: produced – used)

**STEP TWO**

1. What is the second step of aerobic cellular respiration?
2. During the Krebs cycle, how many NADPH are produced? How many FADH2 are produced?
3. How many ATP are produced?   
    \*Hint: only one rotation of the Krebs cycle was illustrated

**STEP THREE**

1. What is the last step of aerobic cellular respiration?
2. What is moving the hydrogen ions (H+) across the mitochondrion membrane?
3. Each time the ATP synthase (red) rotates, what is produced?

Click on blue tab, found under the oxygen levels, labeled “Cellular Respiration Activity”

Complete the activity by dragging and dropping the correct term to its location in aerobic cellular respiration. Once complete, draw the diagram in the box below.