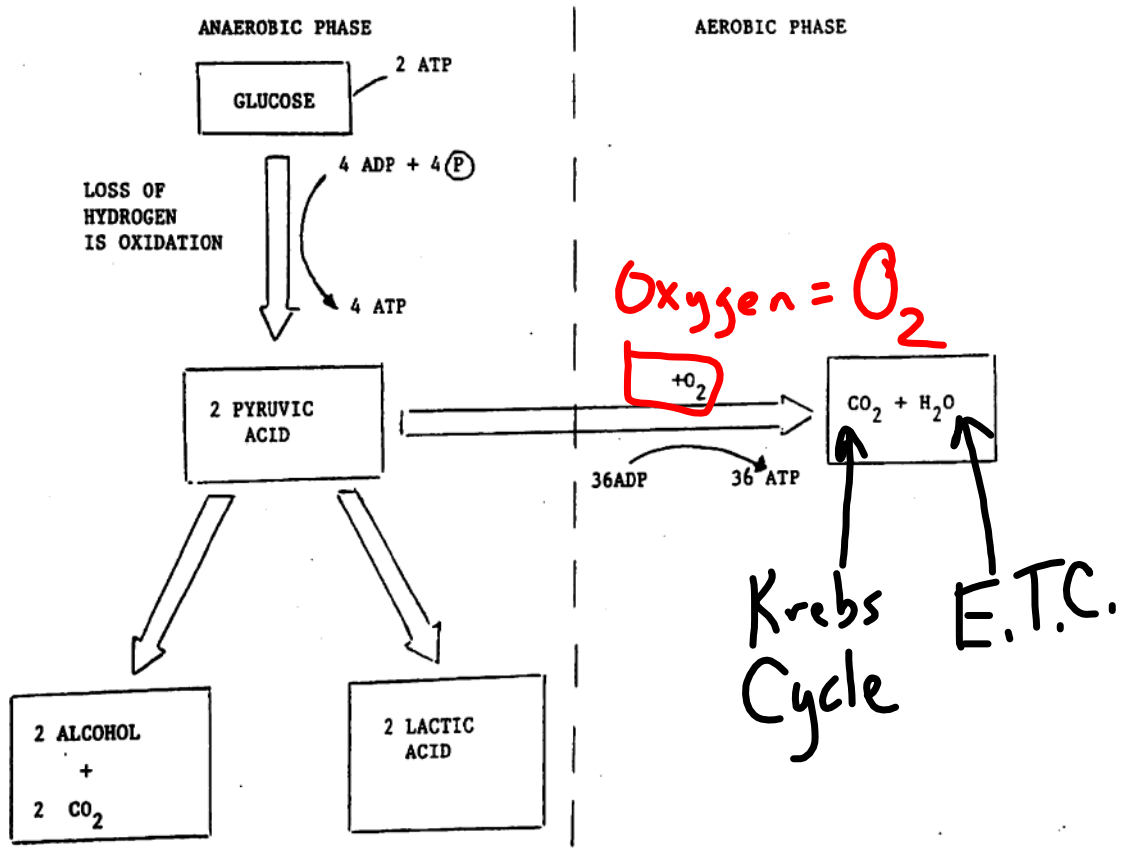
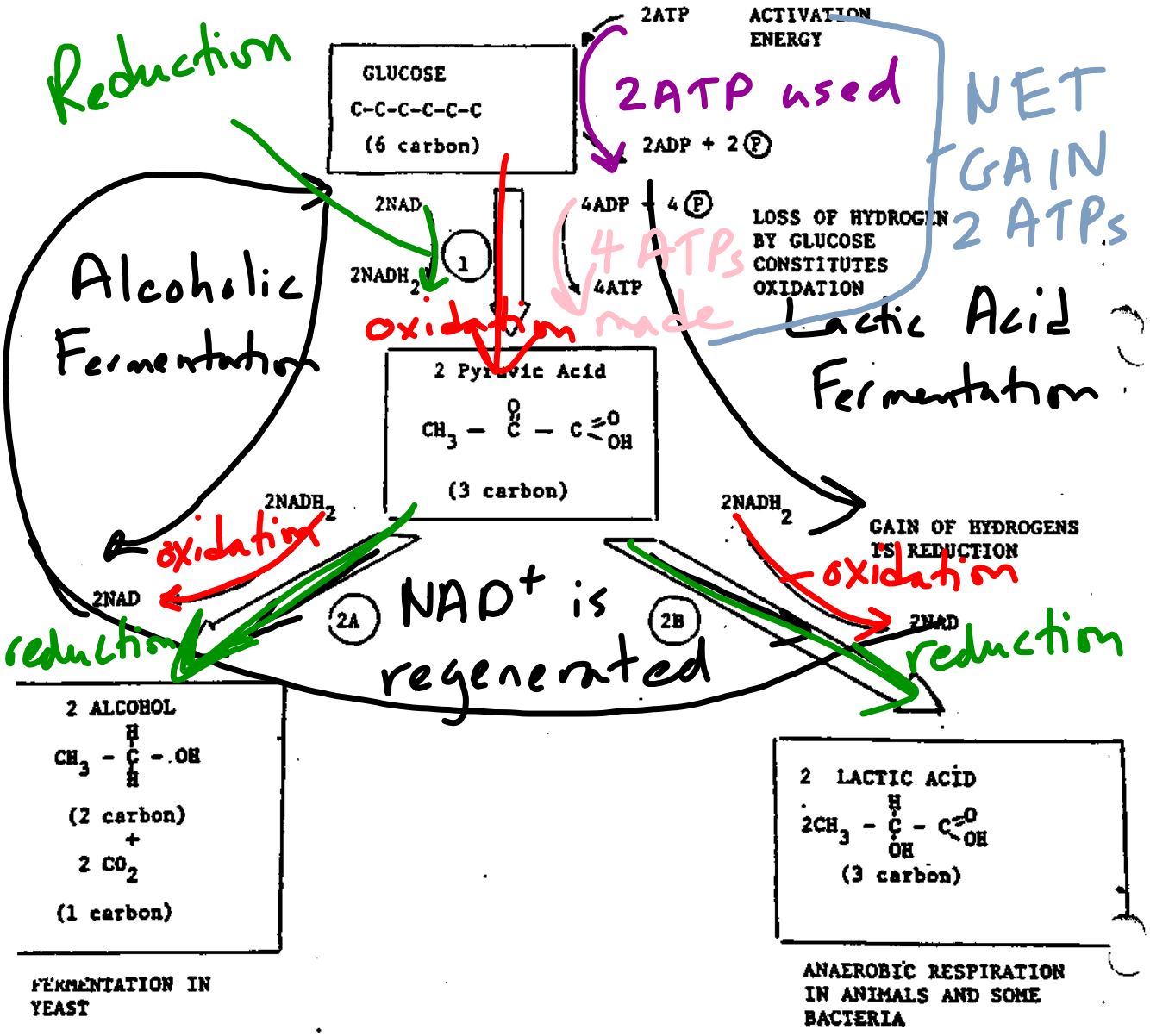
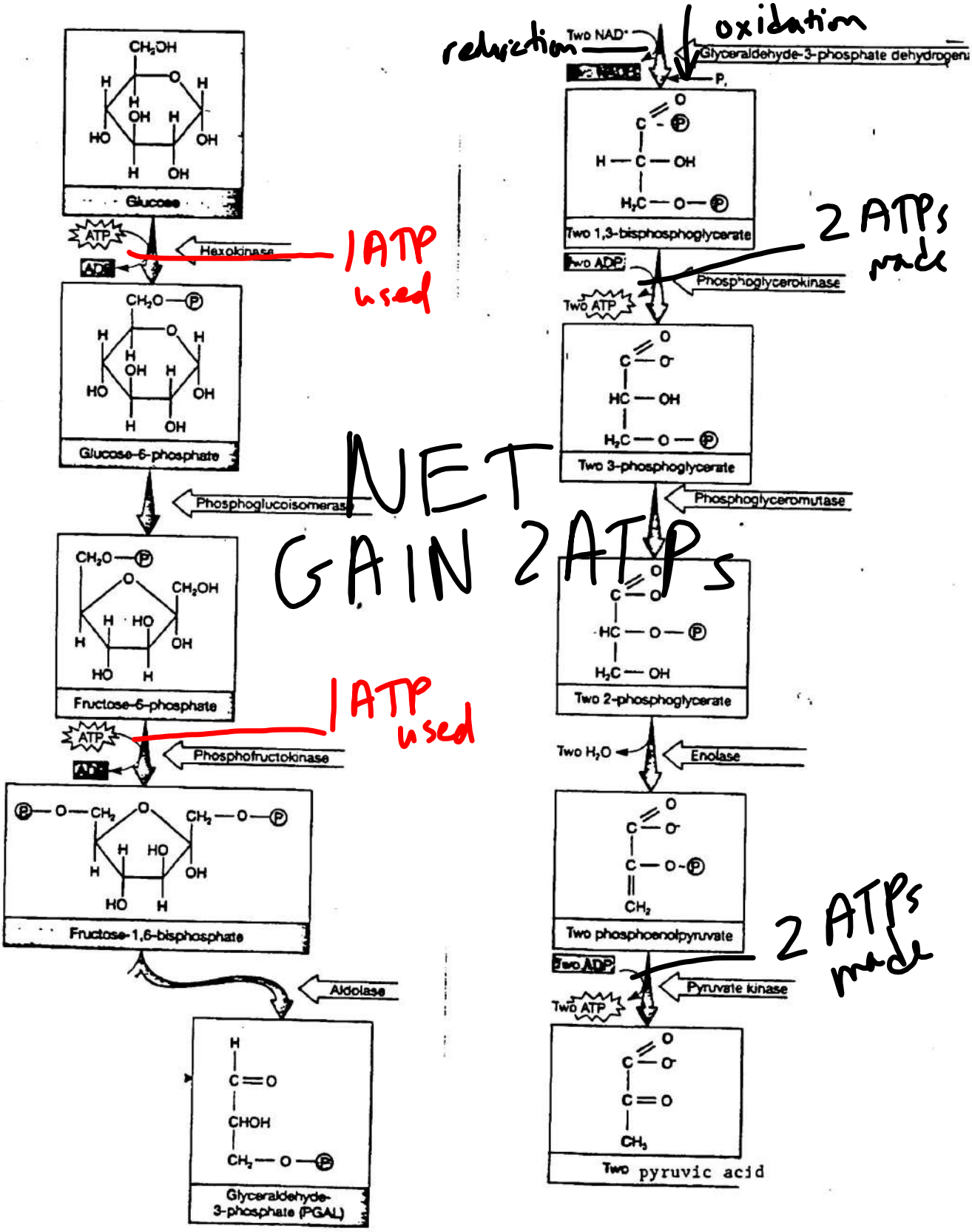
Cell respiration notes blank with BTB lab diagram



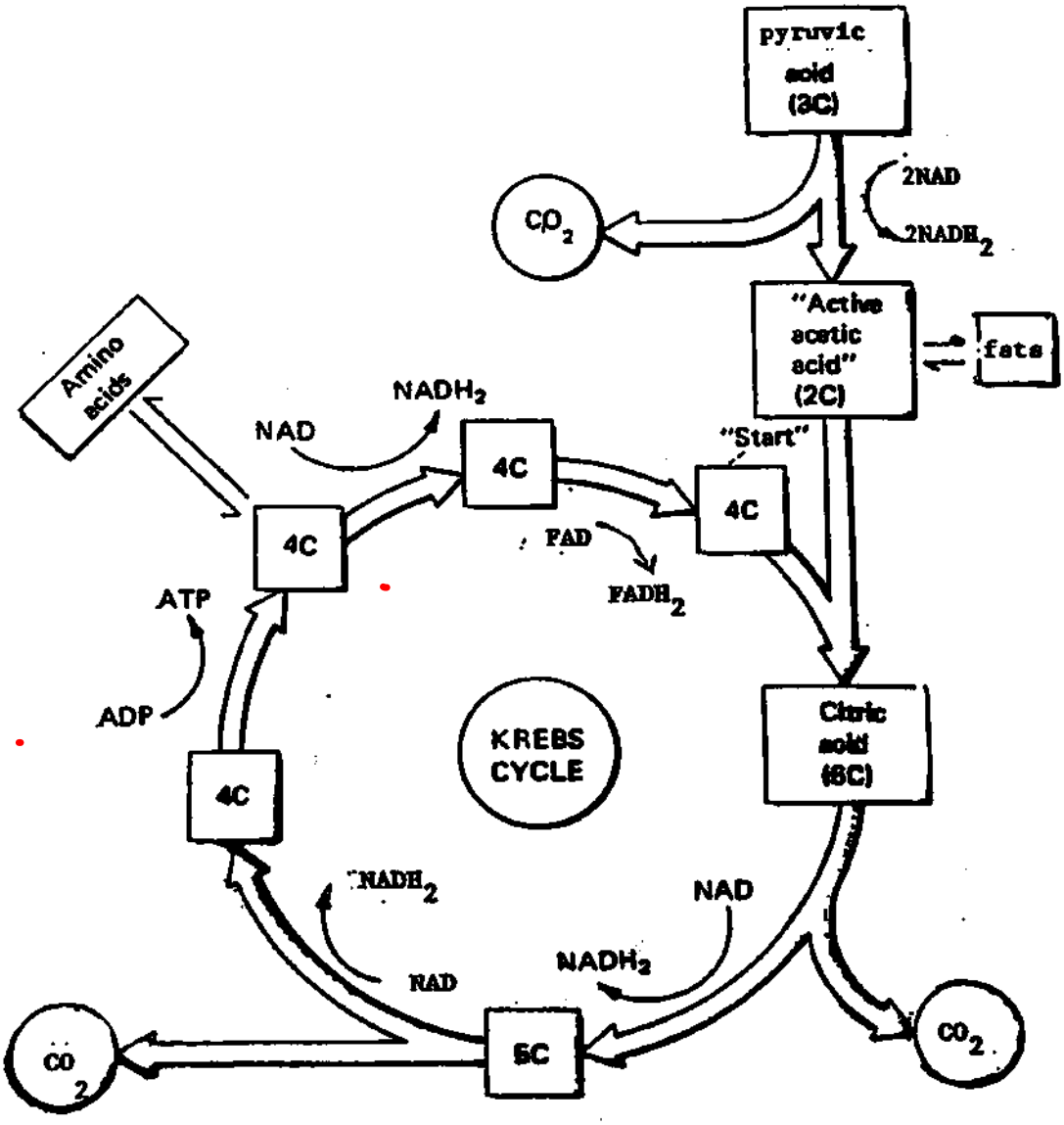
Cell respiration notes blank with BTB lab diagram



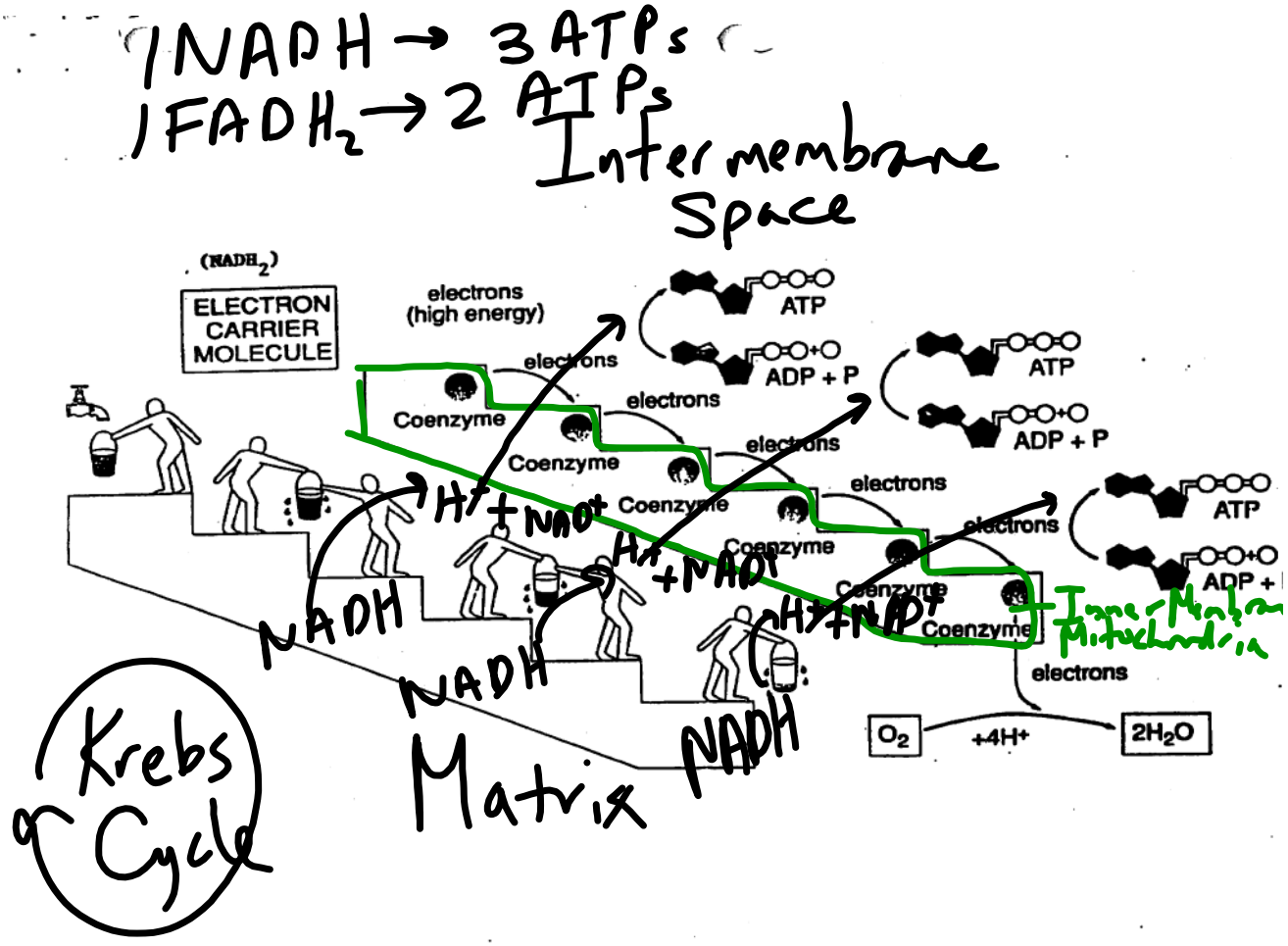
Do Not Memorize



KREBS (CITRIC ACID) CYCLE



Cell respiration notes blank with BTB lab diagram



Cell respiration notes blank with BTB lab diagram

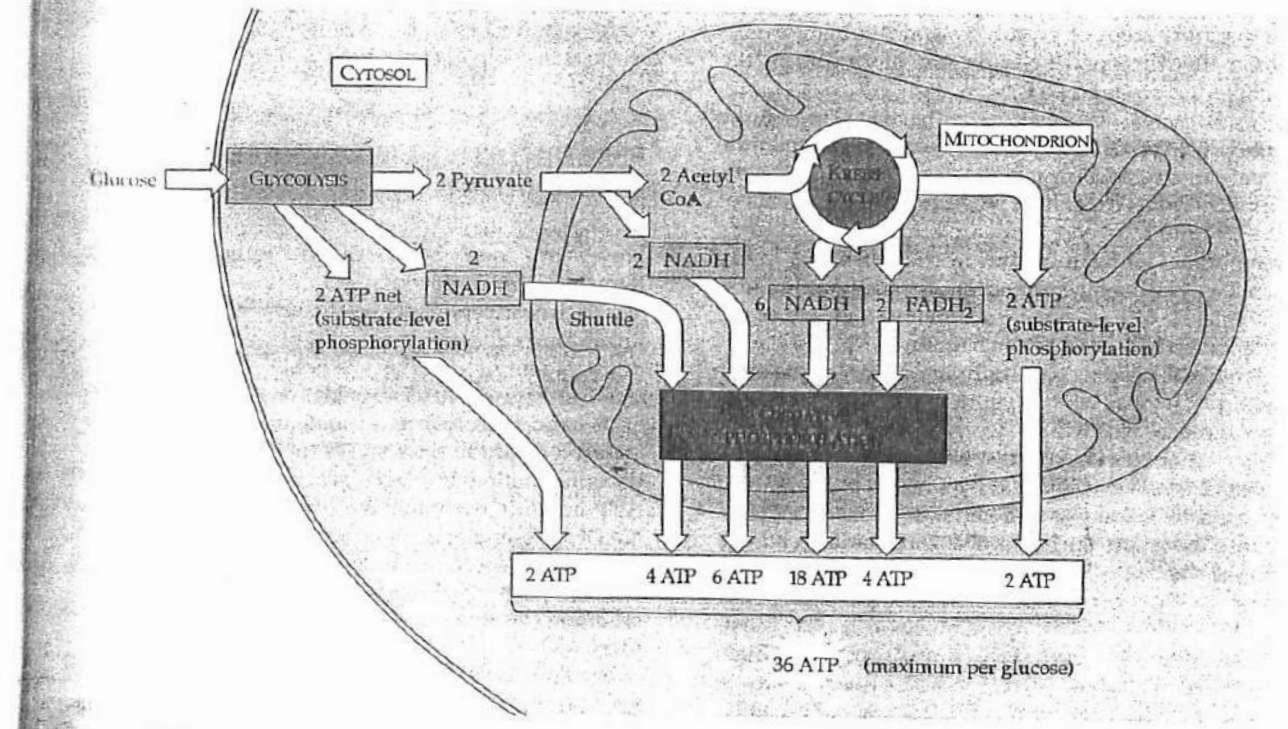
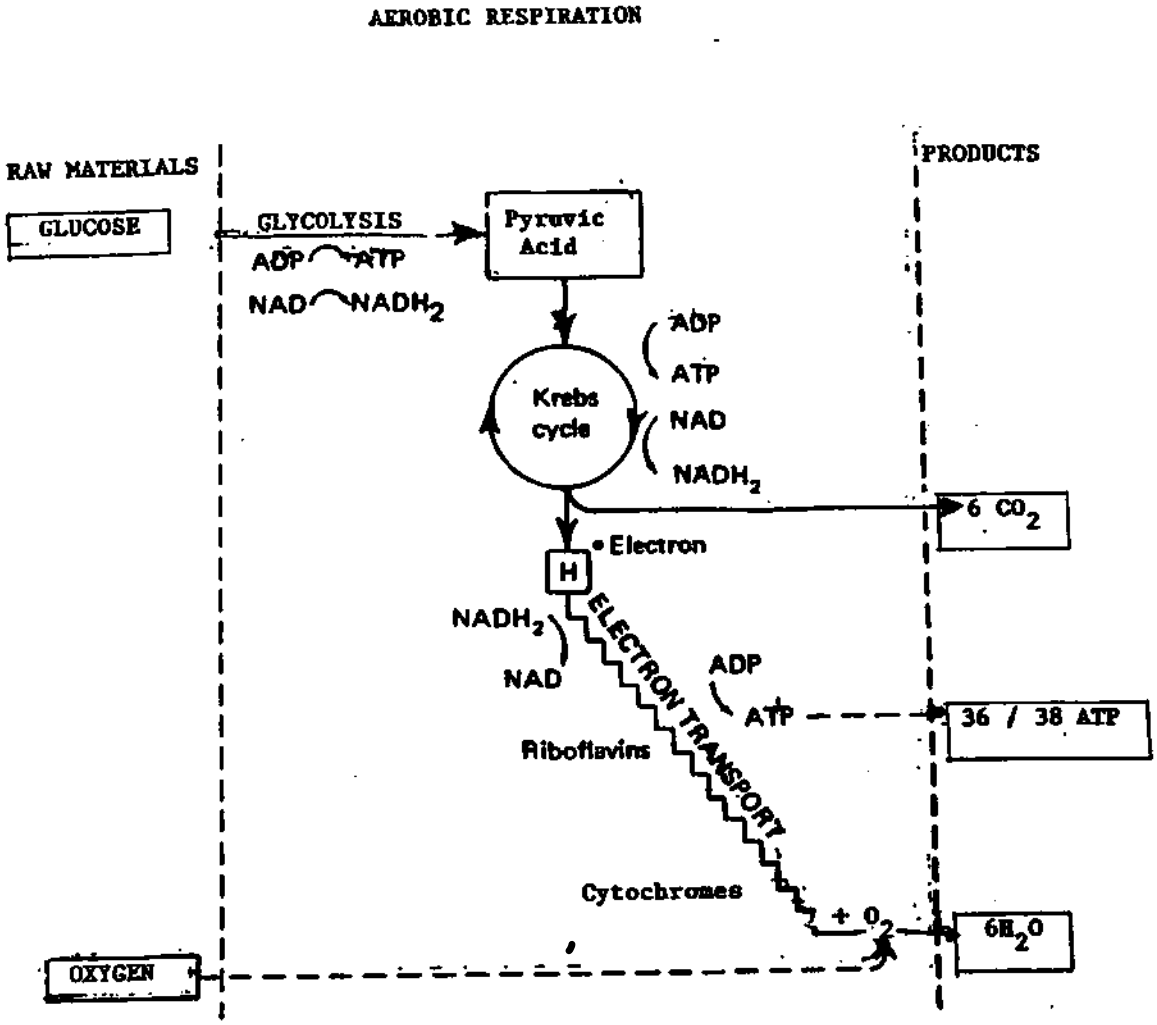
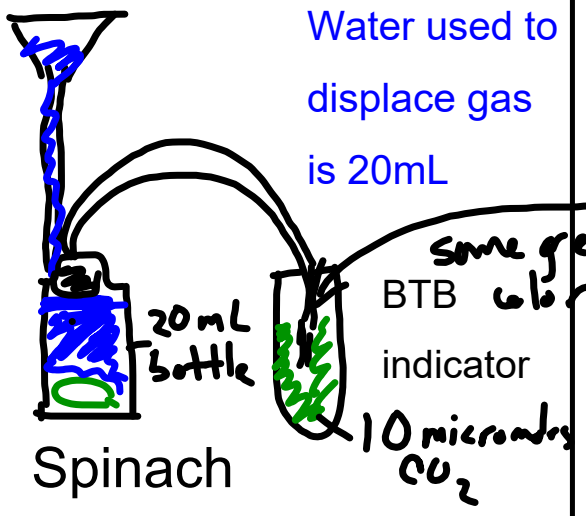


Figure 9.20
The maximum ATP yield for cellular respiration in a eukaryotic cell. For reasons discussed in the accompanying text, the maximum yield of 36 ATP per glucose molecule is only an estimate—and a high one, at that. Our estimate is based on a yield of 3 ATP per NADH, but actual measurements place the ratio at about 2.7. A maximum ATP yield of 32 per glucose is probably more realistic.

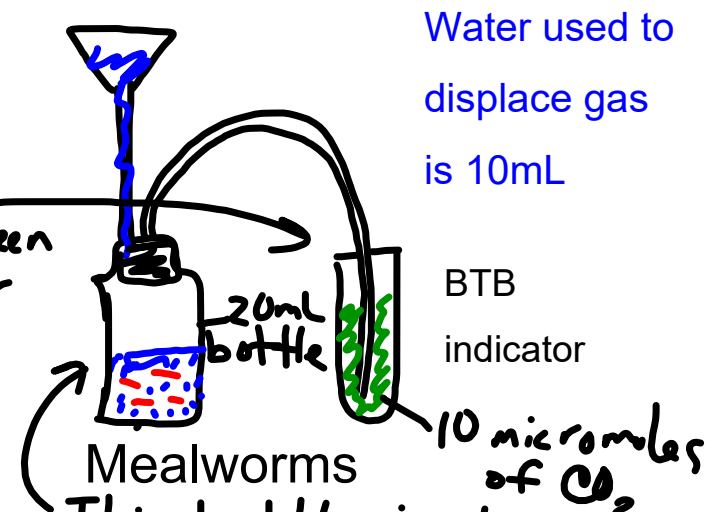
Cell respiration notes blank with BTB lab diagram





Bottle can hold other gases (O_2 and N_2) and 10 micromoles of CO_2 from spinach

*More volume of water, then less concentration of CO_2



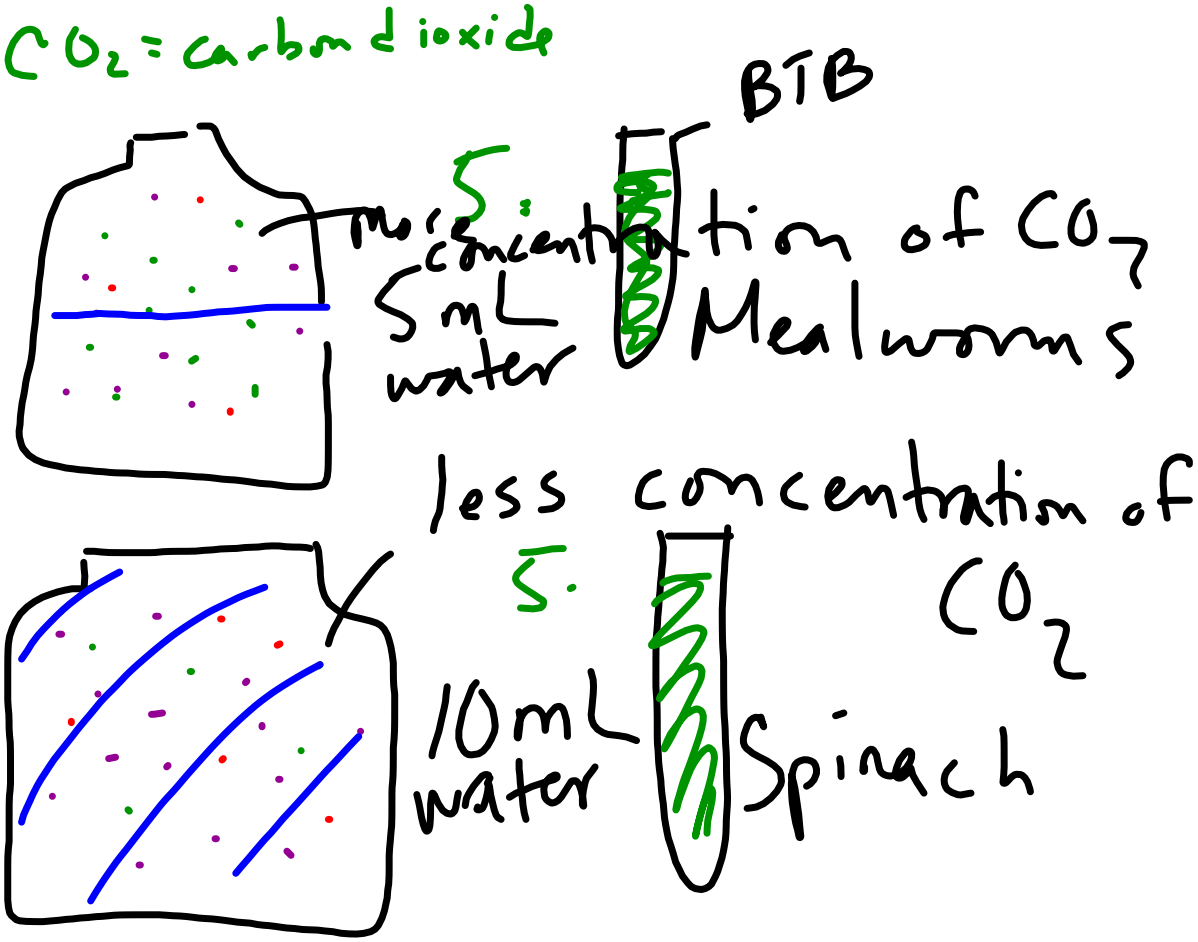
This bottle is twice as concentrated in CO_2 as compared to spinach.

Half the bottle needs to be filled with water

*Less volume of water then there is a greater concentration of CO_2

17a) Gases (mixture of gases) – Spinach because it is less concentrated with CO_2 and it is only CO_2 that changes BTB.

17b) Mealworms, less gases were displaced because the concentration of CO_2 is greater so it will cause the same green color in BTB with less gas mixture.


CO_2 = carbon dioxide
BTB
5 mL water
5 Mealworms
more concentration of CO_2
10 mL water
5 Spinach
less concentration of CO_2

Greater than

$$\frac{\text{Larger \#}}{\text{Smaller \#}} = \text{times faster}$$

Lesser than

$$\frac{\text{Smaller \#}}{\text{Larger \#}} = \text{times slower}$$