

Names(s) _____ Group _____

The box below represents a plant cell. Label one of the ovals as a mitochondrion and one as the chloroplast. Show me where **glycolysis** and **Krebs** occur by writing those words on the diagram in the appropriate spots. For the mitochondrion draw the **inner membrane**, for the chloroplast draw a **stack of thylakoids**. Draw and label the **electron transport chains** (use ETC), **photosystem II** (PSII) and **photosystem I** (PSI), and show me which direction **protons are pumped**. Show where each makes **ATP**. Label where the **Calvin Cycle** occurs. Show me where **Glucose**, **CO₂**, **H₂O**, and **O₂** are used/produced in the processes of photosynthesis and cellular respiration by adding them to the diagram. Show me where **sunlight** is used. Label the **light reactions** and indicate how they relate to the Calvin Cycle. Add lines to show me how the organelles' products "connect" the two processes. Add lines to your drawing to explain why we commonly say, "Plants use CO₂ and produce O₂"

