

Energetics: Terms and Concepts
Chapters 7 and 8
Biology the Unity and Diversity of Life, 9th Ed, Starr and Taggart

Write the balanced equation for Photosynthesis

Write the balanced equation for Cellular Respiration

Diagram a chloroplast and indicate where the following processes occur:

- Light-dependent Reaction
- Electron Transport
- Calvin-Benson Cycle (Light-independent Reaction)

Diagram a Mitochondrion within a Cell and indicate where the following processes occur:

- Glycolysis
- Krebs Cycle
- Electron Transport

List the products and amounts of ATP produced (if any) in the following reactions:

- Photosynthesis
- Cellular Respiration
- Glycolysis
- Fermentation

Define the following terms:

light-independent reaction	fermentation	pigment
light-dependent reaction	pyruvate	stoma (stomata)
electron transport	carbon fixation	stroma
ATP	chlorophyll	thylakoid
ADP	heterotroph	aerobic respiration
glycolysis	autotroph	anaerobic respiration
	photosystem	

Answer self-quiz questions pages 129 and 146
(Write out question with correct answer underlined!)

