**9th Grade Biology Standard 2/Objective 2 – Study Guide**

Auto:

Hetero:

Trophic:

Autotrophic:

Heterotrophic:

3 Types of:

Energy

Reactions:

Photosynthesis:

Respiration:

Fermentation:

Interactives: [*sites.ext.vt.edu/virtualforest/modules/photo.html*](http://www.sites.ext.vt.edu/virtualforest/modules/photo.html)

[*sepuplhs.org/high/sgi/teachers/photosynthesis2\_sim.html*](http://sepuplhs.org/high/sgi/teachers/photosynthesis2_sim.html)

[*http://glencoe.mheducation.com/sites/dl/free/0078802849/383932/BL\_25.html*](http://glencoe.mheducation.com/sites/dl/free/0078802849/383932/BL_25.html)

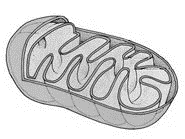
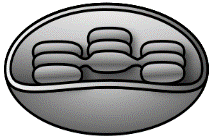
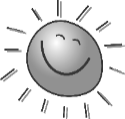
[*https://www.exploringnature.org/db/view/1045*](https://www.exploringnature.org/db/view/1045)

**Mitochondria**

**Chloroplast**

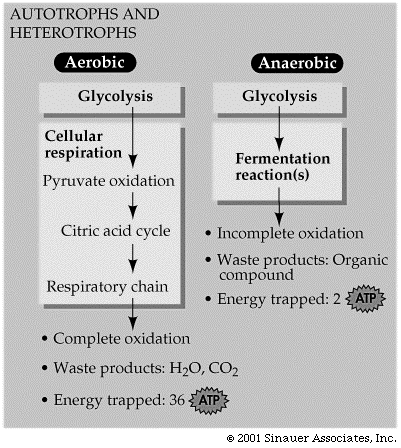
**6CO2 + 6H2O + C6H12O6 + 6O2**

**6CO2 + 6H2O + C6H12O6 + 6O2**



***How much carbon dioxide/oxygen do small materials produce? – Photosynthesis/Respiration Demonstrations***

What are the differences between aerobic and anaerobic respiration?



Notes:

What are the advantages of aerobic respiration?

***Fermentation – Sourdough Activity***