

# Respiration/Photosynthesis Test

What to study:

Respiration:

- Study old quiz

Aerobic -

glucose + oxygen  $\rightarrow$  carbon dioxide + water + 36 ATP  
ex - humans, plants \*occurs in mitochondria

Anaerobic - 2 types

① Lactic acid fermentation

glucose  $\rightarrow$  lactic acid + 2 ATP

ex - some bacteria, human muscle cells

② Alcoholic fermentation

glucose  $\rightarrow$  alcohol +  $\text{CO}_2$  + 2 ATP

ex - yeast

Photosynthesis:

carbon dioxide + water + sunlight  $\rightarrow$

glucose + oxygen

\* occurs in the chloroplast

\* chlorophyll is green pigment that traps light

Know the factors which may affect the rate of photosynthesis

(temp, pH, light, water)

Know uses for glucose & oxygen

$\rightarrow$

## Leaf Structure:

- cuticle
- epidermis
- mesophyll → {
  - palisade layer
  - spongy layer
- vein (xylem & phloem)
- chloroplasts
- guard cells } \* VERY
- stomates } IMPORTANT

## BONUS:

Respiration -

① Glycolysis

② Krebs Cycle

③ Electron Transport Chain

Photosynthesis -

Light dependent & light  
Independent reactions

Know the structure  
of the mitochondria &  
chloroplast!