

## **Cell test study guide**

SA/V ratio

Prokaryotic vs. Eukaryotic

Selectively permeable

Cell organelles (function and picture - lysosome, DNA, cell membrane, mitochondria, chloroplasts, endoplasmic reticulum, cytoplasm, Golgi body, ribosomes, nucleus, vacuole, thylakoid, stroma, cell wall, centrioles)

Plant vs. Animal cells

Diffusion

Osmosis

Active transport vs. Passive transport

Endocytosis vs. Exocytosis

ATP

Photosynthesis (equation, 3 steps)

Cellular respiration (equation, plants & animals)

Light spectrum (waves used by plants)

Mitosis ( steps in order and major occurrences; plants vs. animals; cancer)

\* facilitated diffusion

\* isotonic, hypertonic, hypotonic - where move?

\* protein channels

\* pigments

\* photosynthesis:

light reactions - what does the e- make, products, where, steps

dark reactions (Calvin cycle) - require, what does it make, where, when

\* cellular respiration:

glycolysis - what goes in, what comes out, where it happens, # ATP

cellular (oxidative) respiration - Krebs' cycle (what it starts with), ETC, products, where it happens

fermentation - lactic acid, no O<sub>2</sub>, sore muscles

## **Cell test study guide**

SA/V ratio

Prokaryotic vs. Eukaryotic

Selectively permeable

Cell organelles (function and picture - lysosome, DNA, cell membrane, mitochondria, chloroplasts, endoplasmic reticulum, cytoplasm, Golgi body, ribosomes, nucleus, vacuole, thylakoid, stroma, cell wall, centrioles)

Plant vs. Animal cells

Diffusion

Osmosis

Active transport vs. Passive transport

Endocytosis vs. Exocytosis

ATP

Photosynthesis (equation, 3 steps)

Cellular respiration (equation, plants & animals)

Light spectrum (waves used by plants)

Mitosis ( steps in order and major occurrences; plants vs. animals; cancer)

\* facilitated diffusion

\* isotonic, hypertonic, hypotonic - where move?

\* protein channels

\* pigments

\* photosynthesis:

light reactions - what does the e- make, products, where, steps

dark reactions (Calvin cycle) - require, what does it make, where, when

\* cellular respiration:

glycolysis - what goes in, what comes out, where it happens, # ATP

cellular (oxidative) respiration - Krebs' cycle (what it starts with), ETC, products, where it happens

fermentation - lactic acid, no O<sub>2</sub>, sore muscles