Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Common Assessment review:**

**Cell Transport**

1. Why do we need to do cell transport? To maintain homeostasis
2. Three types of passive transport = from \_\_high\_\_\_\_\_ concentration to \_\_\_low\_\_\_\_
   1. Diffusion- small particles
   2. Osmosis- water. From high to low WATER concentration.
   3. Facilitated diffusion- uses a protein
3. Three types of active transport = from \_\_\_\_\_\_\_ concentration to \_\_\_\_\_\_\_
   1. Endocytosis- large particles taken into the cell by cell membrane
   2. Exocytosis- large particles released out of cell
   3. Protein pumps- use ATP to bring things into or out of the cell.
4. Osmosis practice
   1. Hypertonic = higher amount of solutes. Water goes out of the cell.
   2. Hypotonic = lower amount of solutes.Water goes into the cell.
5. Which two transport use a protein? Facilitated diffusion and protein pumps

**ATP**What is the difference between ADP and ATP?

ATP has 3 phosphates, ADp has 2

-What happens when you drop off a phosphate group? Is energy released or gained? released

What are the three parts of an ATP?

1. Sugar

2. phosphate

3. nitrogen base

**Photosynthesis V Cellular Respiration**

Words for what is Photosynthesis:

Sunlight converts carbon dioxide and water to Glucose and Oxygen

Words for what is Cellular Respiration:

Glucose and oxygen break down to water and carbon dioxide in the mitochondria.

**What is the location for:**

Photosynthesis: \_\_\_chloroplast\_\_\_\_\_\_\_\_\_\_\_\_

Cellular Respiration: Mitochondria  
Light Dependent: Thylakoid  
Light Independent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_stroma\_\_  
Glycolysis: \_\_\_cytoplasm\_\_  
Kreb’s cycle: mitochondira\_\_\_\_\_\_  
Electron Transport chain: mitochondria

Which does Cellular Respiration? Plants and animals

Which does Photosynthesis? Plants (autotrophs)

Which creates Glucose? photosynthesis

Which uses the Calvin Cycle? photosynthesis

Which uses the Kreb’s Cycle? Cellular Respiration

Which uses an Electron Transport Chain? Both

Which creates carbon dioxide? Cellular respiration

Which one stores up energy? photosynthesis

Light Dependent –

Light Independent- “AKA CALVIN CYCLE”

1. Which stages transfers the energy of the sun to transfer molecules like NADPH and ATP?
2. Which stage uses CO2? Light independent
3. Which stage splits water “photolysis”? light dependent
4. Which stage involves chlorophyll? Light dependent

Cellular Respiration:

1. Which stage does not occur in the mitochondria? glycolysis
2. Which stages does not require oxygen? glycolysis
3. Which stage do all organisms do? glycolysis

What is an independent variable? What WE Change Dependent Variable? What we measure