

Cellular Energy Review Worksheet

Name: _____

Date: _____

Assignment #: _____ Block: _____

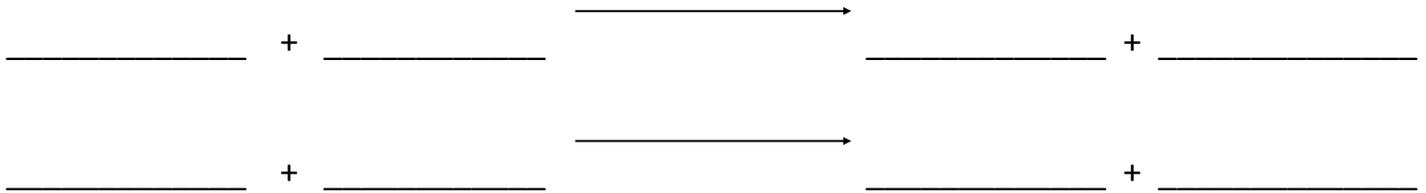
_____ = _____ % = _____
65

DIRECTIONS: Use the word bank to complete the sentences and equations. **YOU MAY USE WORDS AND SYMBOLS MORE THAN ONCE!** (But not more than twice! :)

CO ₂	eat	H ₂ O	stomata	vein
C ₆ H ₁₂ O ₆	energy	O ₂	sun	water
carbon dioxide	glucose	oxygen	sugar	
chloroplasts	guard cells	palisade	sunlight	

Photosynthesis:

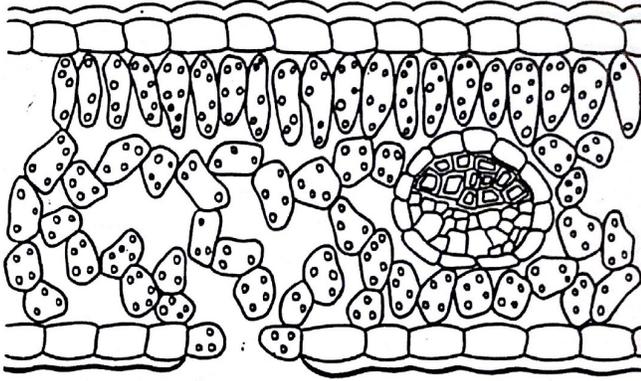
The equation: fill the top with words and the bottom with numbers and chemical symbols.
REMEMBER: the equations needs to be **BALANCED!**



- Circle the reactants and draw a square around the products in the equations above.
- In photosynthesis, plants capture light energy from the _____ and change it into _____ and _____.
- The glucose that plants make supplies them with _____ and also becomes a source of energy for the organisms that _____ the plants.
- Plants use _____ from the roots and _____ through the stomata in order for photosynthesis to occur.
- Photosynthesis takes place in the _____ in plant cells. These are mostly found in the _____ layer of the leaf.
- The _____ of the leaf delivers water and nutrients from the roots.
- The leaf can open and close the _____ to allow carbon dioxide into the leaf and oxygen to exit.
- The _____ regulate the opening and closing of #7.



Directions: Use the word bank to label the layers of the leaf.



WORD BANK: guard cells
stomata lower epidermis
cuticle Vein
upper epidermis spongy layer
palisade layer chloroplasts

ATP	carbon dioxide	glucose	mitochondria	rise
bubbles	cell energy	H ₂ O	muscles	two
CO ₂	energy	humans	O ₂	water
C ₆ H ₁₂ O ₆	fermentation	lactic acid	oxygen	yeasts



Cellular Respiration:

The equation: fill the top with words and the bottom with numbers and chemical symbols.
REMEMBER: the equations needs to be BALANCED!

_____ + _____ → _____ + _____ + _____
 _____ + _____ → _____ + _____ + _____

- Circle the reactants and draw a square around the products in the equations above.
- The _____ (from food) you eat has to be broken down so that the energy it contains can be converted into _____, a form of energy your cells can use.
- Most organisms, such as _____, use cellular respiration to obtain _____ from food.
- Cellular respiration takes place in the _____ in the cell.
- The cellular respiration chemical reaction produces two waste products, _____ (which is exhaled) and _____.

Fermentation:

- When cells cannot get the _____ needed for cellular respiration, the process of _____ takes over.
- There are _____ major types of fermentation.
- The first type occurs in your _____. It produces _____, which contributes to muscle fatigue after strenuous activity.
- The second type of fermentation occurs in certain types of bacteria and _____.
- The gas produced by yeast cells in fermentation cause _____ of carbon dioxide to form in bread and make the bread _____.

