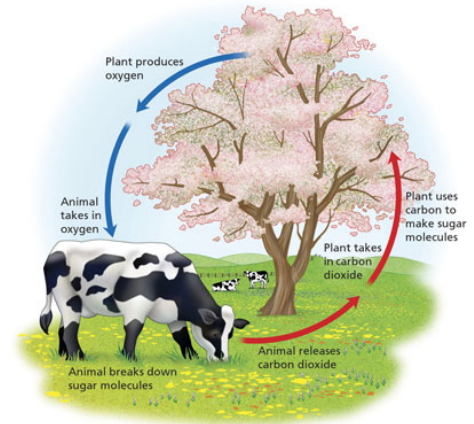


PHOTOSYNTHESIS , CELLULAR RESPIRATION, & DIVISION

Directions: CH 8 in your text 302-321

- On a blank piece of paper, design a poster that will show information about photosynthesis and cellular respiration and the *connections between the two*.

- When illustrating Photosynthesis: Draw a picture of a plant. Label the picture to identify the different parts of the plant involved in the process of Photosynthesis. Be sure to include the energy transformations that take place during this process. You **MUST** include ALL items in the rubric presented.



- When illustrating Cellular Respiration: Draw a picture of a human or animal. Label the picture to identify the different parts of Cellular Respiration. Be sure to include the energy transformations that take place during this process. You **MUST** include ALL items in the rubric presented.

-When illustrating Cell Division: Draw a diagram representing the various stages of cellular division. Be sure to include the three major stages of cell division and drawings or written information that illustrates or explains each of the 3 stages.

- Make sure to include ***chemical equations*** for photosynthesis and cellular respiration on your poster.

- Remember: Do your **BEST** work so you can be proud to show it off!

- Your Poster Must Contain the Following Information:

Terms to Include in the Poster:

Photosynthesis:

- 🍏 Plant (stem, leaves, roots, flowers)
- 🍏 Plant Cell Enlarged (showing cell wall and chloroplast)
- 🍏 Energy
- 🍏 CO_2
- 🍏 H_2O
- 🍏 Glucose
- 🍏 O_2
- 🍏 Photosynthesis Equation

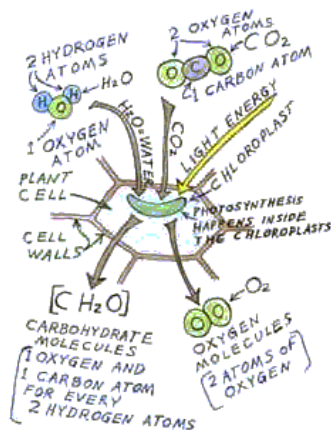
Cellular Respiration:

- 🍏 **Human OR Animal (lungs, mouth, and heart)**
- 🍏 **Animal Cell Enlarged (showing mitochondria and cytoplasm-where cellular respiration takes place)**
- 🍏 Energy
- 🍏 CO_2
- 🍏 H_2O
- 🍏 Glucose
- 🍏 O_2
- 🍏 **Cellular Respiration Equation**

Cell Division

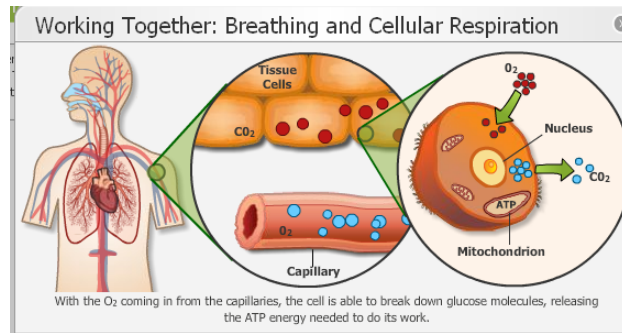
- 🍏 A cycle diagram with arrows connecting pathways in order
- 🍏 Three stages of cell division labeled
- 🍏 Three stages drawn and labeled OR Three stages written explanation

PHOTOSYNTHESIS, CELLULAR RESPIRATION & DIVISION



Your poster should include the following: Photosynthesis Illustration Rubric

Check off:	NAME:	Points
	Plant drawing (colored and shows stem, leaves, roots and flower)	2
	Plant cell (colored and labeled) showing where photosynthesis takes place in a plant	2
	Photosynthesis Equation	1
	Energy (identified correctly, colored and labeled)	1
	Carbon Dioxide (labeled, shown at correct location on plant)	1
	Water (labeled and shown at correct location on plant)	1
	Glucose (labeled and shown at correct location on the plant)	1
	Oxygen ((labeled, shown at correct location)	1
	Photosynthesis Summary in 3 steps (Right Page)	15
	Total Points	25



Cellular Respiration Illustration Rubric

Check off:	NAME:	Points
	Human or Animal Drawing (colored and shows lungs, mouth, capillaries, and heart)	2
	Animal cell (colored and labeled) showing mitochondria and cytoplasm-where cellular respiration takes place in an animal cell	2
	Respiration Equation	1
	Energy (identified correctly, colored and labeled)	1
	Oxygen (labeled, shown at correct location)	1
	Water (labeled and shown at correct location)	1
	Glucose (labeled and shown at correct location)	1
	Carbon Dioxide (labeled and shown correct location)	1
	Cellular Respiration Summary in 3 steps (Right Page)	15
	Total Points	15

Cell Division

Check off:	NAME:	Points
	A cycle diagram	2
	Diagram is broken into 3 sections representing 3 stages of cell cycle	2
	Labels	2
	Interphase (labeled, a drawing is labeled OR written explanation of this phase)	3
	Mitosis (labeled, drawings are labeled OR written explanation is provided – include names of phases of mitosis in order)	3
	Cytokinesis (labeled, a drawing is labeled OR written explanation of this phase)	3
	Total Points	15

CELL DIVISION

3 stages of cell cycle:

Interphase

Mitosis (division of nuclear material)

Cytokinesis (division of cytoplasm)

