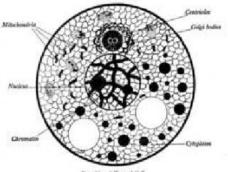
5.3 Respiration Reading Comprehension

Do NOT write on this PAPER...please

- Did you know there are two kinds of respiration? One kind of respiration is when we breathe air in and out of our lungs. The other kind happens in both plant and animal cells, including people's cells.
- Animals and plants need oxygen. When an animal breathes, it takes in oxygen gas and releases carbon dioxide gas into the atmosphere. This carbon dioxide is a waste product produced by the animal's cells during cellular respiration.



- ³ Cellular respiration occurs in the individual cells.

 Digested foods have chemical energy stored in them. Energy to live comes from releasing this energy. Cells use oxygen to "burn" food for energy. Water and carbon dioxide are produced as wastes. The cells in both plants and animals perform respiration. Carbon dioxide is also released into the atmosphere when fuels are burned, such as in automobiles or factories. Plants take in carbon dioxide and release oxygen through their leaves.
- Plants use a process called photosynthesis to make their own food. During photosynthesis, a plant uses light, water, and carbon dioxide to make its own food. Oxygen is given off during photosynthesis as a waste product.
- ⁵ The chemical equation for photosynthesis is: LIGHT (energy) + CO₂ + H₂O --> C₆H₁₂O₆ + O₂
- This is the reaction that only plants and some algae and bacteria can do. They take sunlight and combine carbon dioxide (CO₂) and water (H₂O). They create glucose (C₆H₁₂O₆) and oxygen gas (O₂). By this process, plants change energy from the sun into glucose.
- ⁷ The reverse of this process is cellular respiration. The sugars made from photosynthesis are broken down with oxygen to release energy. The waste products are carbon dioxide and water.
- The equation for this is: $C_6H_{12}O_6 + O_2$ --> Usable Energy (ATP) + $CO_2 + H_2O$.
- Cells then use that energy to power the functions of the cell. The energy has been stored in a compound called adenosine triphosphate (ATP). ATP is the molecule used by cells to power the secondary reactions that keep them alive.
- Some other organisms such as algae, which are not classified as plants or animals, also make their own food by photosynthesis. Most algae live in water. The amazing thing is that eighty percent of the oxygen on Earth is made by algae living in oceans. Plants living on land replace the remaining twenty percent of the oxygen used by animals. This is a vital reason we must protect our oceans from pollutants. The algae living in our oceans are crucial to life on Earth.



Write these questions with your full answers (NOT A.B. or C) in your notebook under today's bellringer......

1.	Photosynthesis is the process by which:	2.	Respiration is the process in which: A Cells produce carbon dioxide and water B Cells use oxygen to burn food for energy C Both a and b
			D Neither a nor b
3.	Where do most algae live?	4.	What do you think would happen to the amount of oxygen in the atmosphere if all of Earth's algae suddenly died off?
5.	Plants and animals perform respiration. (A) False (B) True	6.	Once animals use oxygen, it can never be replaced. A False True
7.	Algae cannot make their own food. (A) False (B) True	8.	Plants produce oxygen as a waste product of photosynthesis. A False B True

Turn this paper back in.

Show your teacher your notebook.

Pick up the Respiration Reading Comprehension

Wkst



5.3a Respiration Reading Comprehension Wkst

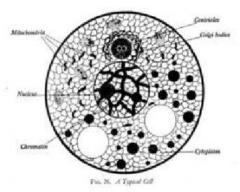
Name	#
Date	

reactions	perform	respiration	or
process	combine	life	equation
individual	reaction	power	atmosphere
reason glucose	molecule	reverse	adenosine

Directions: Fill in each blank with the word that best completes the reading comprehension.

Did you know there are two kinds of respiration? One kind of respiration is when we breathe air in and out of our lungs. The other kind happens in both plant and animal cells, including people's cells.

Animals and plants need oxygen. When an animal breathes, it takes in oxygen gas and releases carbon dioxide gas into the atmosphere. This carbon dioxide is a waste product produced by the animal's cells during cellular respiration.



Cellular (1)	occurs in the		
(2)	cells. Digested foods have	nemical energy stored in them. Energy to	
live comes from releasing thi	is energy. Cells use oxygen to "	burn" food for energy. Water and carbon	
dioxide are produced as wast	es. The cells in both plants and	animals (3)	
respiration. Carbon dioxide i	s also released into the (4)	when fuels are	
burned, such as in automobil	es (5)	factories. Plants take in carbon dioxide	
and release oxygen through t	heir leaves.		

Plants use a process called photosynthesis to make their own food. During photosynthesis, a plant uses light, water, and carbon dioxide to make its own food. Oxygen is given off during photosynthesis as a waste product.

The chemical (6) _____ for photosynthesis is: LIGHT (energy) + CO_2 + H_2O --> $C_6H_{12}O_6$ + O_2

This is the (7) _____ that only plants and some algae and bacteria can do. They take sunlight and (8) _____ carbon dioxide (CO₂) and water (H₂O). They create (9) _____ (C₆H₁₂O₆) and oxygen gas (O₂). By this _____, plants change energy from the sun into glucose.

The (11) ______ of this process is cellular respiration. The sugars made from photosynthesis are broken down with oxygen to release energy. The waste products are carbon dioxide and water.



The equation for this is: C ₆ H ₁₂ O ₆ + O ₂ > Usable Energy (ATP) + CO ₂ + H ₂ O. Cells then use that energy to power the functions of the cell. The energy has been stored in a compound called (12) triphosphate (ATP). ATP is the (13) used by cells to (14) the secondary (15) that keep them alive. Some other organisms such as algae, which are not classified as plants or animals, also make their own food by photosynthesis. Most algae live in water. The amazing thing is that eighty percent of the oxygen on Earth is made by algae living in oceans. Plants living on land replace the remaining twenty percent of the oxygen used by animals. This is a vital (16) we must protect our oceans from pollutants. The algae living in our oceans are crucial to (17) on Earth.
Show this paper to your teacher & have them initial it.
5pts:)
Pick up the 5.3 Respiration Reading Comprehension to correct your
paper 1 1 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3 is a waste product produced 1. 80% of the Oxygen on Earth is made by
during cellular respiration 2. During, a plant uses light, water, and carbon dioxide to make its own food.
5is the molecule used by cells to power the secondary reactions that keep them alive 6. The chemical equation for photosynthesis is: energy) + CO2 + H2 O - C6 H12 O6 + O2 3. The reverse of photosynthesis isrespiration 6. The chemical equation for photosynthesis is: energy) + CO2 + H2 O - C6 H12 O6 + O2 3. Plants change energy from the sun (light energy) into (chemical energy) during photosynthesis.