Science 10-Biology

Activity 7

Worksheet on Photosynthesis and Cellular Respiration

	10	Name Due Date Show Me	
NO	ΓE: This worksheet is based of Textbook.	on material from pages 341-343 in the Science	ee Probe
1.	Give one example of an "energy	rich" compound	
2.	Photosynthesis occurs in the		of the cell.
3.	How do plants obtain their energ	y-rich compounds?	
4.	Chloroplasts contain a green substance called which is used in the process of photosynthesis.		
5.	What is the main energy source	for photosynthesis?	
6.	Write the word equation for pho	otosynthesis.	
7.	Write the <i>balanced chemical eq</i>	uation for photosynthesis.	
8.	Give the chemical formula for <i>gl</i>	lucose.	
9.	Explain how cells can store the	energy from glucose and get it back for later us	e.

10.	Why can't <i>starch</i> molecules get through the cell membrane?
11.	
	by eating or
12.	Explain why leaves turn colour in the fall. (See bottom right margin of page 341.)
13.	The term "respiration" in animals simply refers to
	Cellular respiration takes place in cell of the body.
14.	During cellular respiration, the energy stored in glucose during photosynthesis is
15.	Cellular respiration requires a <i>gas</i> called
	How does this gas get to every cell in the human body? (Recall Science 9!)
16.	Write the simple word equation for cellular respiration.
17.	Write the <i>balanced chemical equation</i> for <i>cellular respiration</i> .
18.	The equations above summarize the process. Is the process actually more
	complex than this?
19.	Most of the processes of cellular respiration take place in the
	inside the cells.
20.	Why are <i>mitochondria</i> found in both animal and plant cells?

21.	Why are <i>chloroplasts</i> found only in plant cells and not in animal cells?
22.	Cellular respiration requires <i>oxygen</i> . How was the oxygen on the earth
	produced?
23.	Cellular respiration produces a gas called <i>carbon dioxide</i> . What process <i>uses</i>
	carbon dioxide?
24.	What are some of the ways that humans are interfering with the balance of
	photosynthesis and cellular respiration?
25.	Make a copy of the diagram in Figure 15.15 on the right side of page 343. Label it, colour

it and make sure you understand how the two processes are related.