

Name:  
Item #:

**Interpreting Nutrient Cycles: The Carbon Cycle**

Look at your Carbon Cycle diagram (Data Page 8 & pg 76 of textbook), your power point notes and pgs. 71 - 77 to answer the following questions.

1. What do the numbers in the boxes represent?
2. What do the numbers in the ovals represent?
3. What is a gigatonne?
4. What does the arrow up mean? What does the down arrow mean?
5. What is a green arrow? What is a pink arrow?

Look at the rest of the diagram to answer the rest of the following questions

1. What is the largest store of Carbon? How much is it?
2. Which carbon store is larger: oil and gas deposits or coal? How much is each?
3. How much CO<sub>2</sub> is in the atmosphere?
4. a. How much CO<sub>2</sub> is taken out of the atmosphere by plants?  
b. How much CO<sub>2</sub> is released by plants?  
c. How is CO<sub>2</sub> removed from the atmosphere by plants?  
d. If plants use CO<sub>2</sub> in photosynthesis to make carbohydrates, why do they also release carbon into the atmosphere?