**The *Fun-*tastic Nitrogen, Carbon and Water Cycle Assignment**

Once you have a good understanding of the nitrogen cycle, fill in the blanks on the attached diagram to explain the cycle.  One mark per blank space.

**Activity - Cycles Review Questions**

You have just finished studying three cycles that are essential to the study of biology.

Review each of the cycles before completing each of the questions below.  Using a piece of loose-leaf respond to each of the questions as indicated.

**True or False:  Indicate whether each of the following statements is true or false.  If the statement is false, rewrite it to make a true statement.**

1. Nitrogen gas makes up about 48% of our atmosphere.

2. Both plants and animals are capable of using nitrogen directly from the atmosphere.

3. Carnivores (meat – eaters) receive the nitrogen they need by eating animals that feed on herbivores (plant - eaters).

4. Both consumers and producers release carbon dioxide into the atmosphere.

5. As producers perform photosynthesis, carbon dioxide is released into the atmosphere.

6.  Transpiration is the process by which plants release O2 into the atmosphere.

**Fill in the Blank:**

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are types of plants which are capable of converting atmospheric nitrogen into a form which plants can use.

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the name for the process in which bacteria convert nitrates back into N2 (gaseous nitrogen) in the atmosphere.

9.  Nitrogen fixing bacteria convert \_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_.

10. The majority of the carbon dioxide on earth is found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. Nitrogen is an important component in \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_, both of which are essential to life.

12. Green plants use CO2 to produce s                 and c\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

13.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the name of the process in which atmospheric nitrogen can be converted into nitrates.

14.  Carbon dioxide is released to the atmosphere through the burning of \_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_.