**Happy-fun questions on**

**The Carbon Cycle**

**Part 1 - Diagram** (10 marks)

Create a labeled diagram of the carbon cycle on a 81/2 X 11 or larger piece of paper.  Be sure to include all of the processes involved and use arrows to show the cycling of materials.

**Part 2 – Terminology** (1 mark each, total 7)

Provide an explanation for each of the terms below. Your explanation must fully describe how each term applies to the carbon cycle. In your explanation underline or highlight the chemical formulas or words that involve carbon or oxygen.

The first one has been done for you.

a) Producers /Photosynthesis - plants or producers take in carbon dioxide which is used in the process of photosynthesis.  During photosynthesis carbon – based molecules are produced and oxygen is released into the atmosphere.

b)  Sugars

c) Consumers

d) Respiration

e) Dead organic matter

f) Decomposers (ex. Bacteria)

g) Fossil Fuels

h) Burning of Fossil Fuels

**Part 3 – Paragraph response** (6 marks)

Answer the following question:

In paragraph form, explain some of the ways in which humans may have an impact on the carbon cycle.