**The Carbon Cycle, Climate Change, and Maine**

Part I) The Carbon Cycle (quick review)

The Carbon Cycle describes the process by which carbon atoms on our planet move between the Earth’s spheres. For each of the following, provide one example that describes and explains how a carbon atom might move from one Earth sphere into a different sphere.

Carbon moves from the geosphere into the atmosphere when…

Carbon moves from the atmosphere into the hydrosphere when…

Carbon moves from the hydrosphere into the biosphere when…

Carbon moves from the biosphere into the geosphere when…

Part II) Climate Change in Maine

Describe one clear example of how climate change is currently affecting the ***hydrosphere*** in Maine, and a different example of how climate change is predicted to impact Maine’s ***hydrosphere*** in the future.

Now:

Future:

Describe one clear example of how climate change is currently affecting the ***atmosphere*** in Maine, and a different example of how climate change is predicted to impact Maine’s ***atmosphere*** in the future.

Now:

Future:

Describe one clear example of how climate change is currently affecting the ***geosphere*** in Maine, and a different example of how climate change is predicted to impact Maine’s ***geosphere*** in the future.

Now:

Future:

Describe one clear example of how climate change is currently affecting the ***biosphere*** in Maine, and a different example of how climate change is predicted to impact Maine’s ***biosphere*** in the future.

Now:

Future: