

### 2.3.1 Biogeochemical Cycle – Carbon cycle

#### Activity 1

1. Select one of the following biomes
  - a. Boreal
  - b. Wetland
  - c. Tundra
  - d. Temperate
2. Distinguish the amount of carbon stored in vegetation vs soil in your selected biome
3. Using an open system diagram, illustrate a carbon cycle in the selected biome
4. Explain the carbon cycle by incorporate the following keywords (cut them off):

<b>Photosynthesis</b>	<b>Respiration</b>	<b>Decomposition</b>
<b>Burning / combustion</b>	<b>Lithosphere</b>	<b>Carbon sequestration</b>
<b>Source</b>	<b>Sink</b>	<b>Residence time</b>
<b>Methane</b>	<b>Methanogenesis</b>	<b>Calcium carbonate</b>
<b>Fossil fuels</b>	<b>Hydrogencarbonate</b>	<b>Ocean acidification</b>
<b>Human activities</b>	<b>Tree biomass</b>	<b>Atmosphere</b>