

## Cycles in Nature: *The Carbon Cycle*

Plants constantly trap new energy from the Sun, which then moves through the environment. However no new **water** ever arrives on earth. The water we have now is the same water that was here when the dinosaurs lived. It has been reused and recycled many, many times.



Similarly, no new **carbon** arrives either. It is found in the chemicals that make up rocks; underground as coal, oil and natural gas, and in gas form as carbon dioxide. And most importantly, it is the element that provides the building blocks of life. It has constantly been recycled through the ages, and yes, it is the same stuff that dinosaurs were made of.

### **1. Draw a diagram with corresponding text to describe the Carbon Cycle.**

*Include:*

- A typed description that explains how carbon moves through the environment, how it gets into the atmosphere and how it gets into living things and how humans impact this cycle. /10 (5 for the diagram, 5 for the text)

### **2. Draw a diagram to show how global warming occurs.**

- Include a typed explanation of the process. /10 (5 for the diagram, 5 for the text)

### **3. Explain the Challenges of Climate Change and its Possible Solutions**

What are the potential problems that climate change can cause for our planet? Explain. /5  
What can we do as global citizens to prevent further climate change? /5

### **4. A short concluding reflection on the Carbon Cycle and Climate Change /5**

#### **Some Web Sources:**

<http://www.davidsuzuki.org/issues/climate-change/science/climatechange-basics/climate-change-101-1/u>

<http://climatekids.nasa.gov>

<http://www.nature.org/ourinitiatives/urgentissues/global-warming-climatechange/threats-impacts/>

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- You will present your work in a booklet format.
  - Diagrams to be titled, neatly drawn, labeled coloured and fine-lined.
  - Explanations to be clearly explained in your own words, organized into paragraphs.
  - Headings, subheadings used where appropriate.
  - List your web sources if researching online.
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#### **Grading:**

As indicated above.

Total: /35