

## The Carbon Cycle

### Topic: Greenhouse Gas Emissions

#### What You Need To Do

<http://www.esd.ornl.gov/iab/iab2-2.htm>

Go to the website listed above and look at the diagram that shows the Carbon Cycle. Using your own words, write a paragraph explaining how this cycle works. There is information on the above website and a good resource is 'Nature Of Biology' by Judith Kinnear and Marjory Martin. (This is a Year 11 text book and may be available in your school.)

#### Focus Questions

- How does the burning of fossil fuels contribute to an increase in carbon dioxide levels in the atmosphere?
- What is meant by 'sea-surface' gas exchange?
- How have CO<sub>2</sub> levels changed over time?
- List three things that can be done to help reduce the level of CO<sub>2</sub> emissions.
- What is the connection between CO<sub>2</sub> emissions and global warming?
- What can YOUR school do to reduce its greenhouse gas emissions?

#### Curriculum Links

**English:** Writing

**Science:** Natural and Processed Materials

**Society & Environment:** Investigation, Communication & Participation