

Energy Transfer in Nature

Real World Energy
Learner Worksheet
Grade Level: 9-12



Name:

Read the energy transfer in nature backgrounder, and use the information from the website (<http://science24.greenlearning.ca/b5popup.php>) to answer the following questions.

1. Draw the Earth's energy budget. Label your diagram.

2. What is the role of greenhouse gases in the global energy budget?

3. What is the role of ocean currents in the transfer of energy in nature?

4. Explain what a food chain is. Chart the transfer of energy in a food chain.

5. If the doors, vents, and windows of your classroom were sealed, what would happen to the concentration of carbon dioxide in the air?

6. If you knew the room would soon be sealed, with everyone inside, with no ventilation, and no escape, what could you do to prevent everyone from suffocating?

7. What do you think would happen if all naturally occurring greenhouse gases present in the atmosphere were suddenly removed?

8. Select one item from the list below. Evaluate the possible environmental, social and economic impacts that climate change may cause for the item you selected.

- Land
- Atmosphere
- Water

9. Recommend an action you can take to reduce climate change.
