

Carbon Cycle Tutorial

- Click on #5 under Ecology (Carbon-cycle animated tutorial)
- Click the next arrow to navigate through each scene and read the information for each step. Answer the questions below in your notebook.

Scene #1 (Carbon Storage)

- 1) List all of the places where carbon exists on earth

Scene #3 (Terrestrial Carbon Cycle)

- 1) What process do plants and trees use carbon dioxide for? Where is this carbon stored?
- 2) What role does respiration play in the carbon cycle?
- 3) What happens to plant material from dead plants and trees? What happens to some of this material after long periods of time.
- 4) How do consumers obtain carbon? (not shown in this animation -look at your handout/notes on the carbon cycle)

Scene #4 (Aquatic Carbon Cycle)

- 1) What process allows carbon gases (mainly carbon dioxide) move between the oceans and the atmosphere?
- 2) What do ocean plants do that is similar to land plants?
- 3) How do ocean consumers get the carbon that they need?
- 4) How do ocean plants and animals put carbon dioxide back into the water?
- 5) How do some ocean animals make their shells? What happens to this carbon when these animals die?
- 6) How do rocks contribute to the aquatic portion of the carbon cycle?
- 7) How does the carbon from the deep ocean get to the surface?

Scene #5 (Deforestation and Combustion)

- 1) What is the fuel used for combustion? How does this affect the amount of carbon dioxide in the air?
- 2) Why does deforestation lead to an increase in carbon dioxide in the air? How does this affect the global average temperature?
- 3) How would planting more trees (and not cutting down existing ones) affect the amount of CO₂ in the air?

Take the quiz at the end, show me your answers to the above questions, and you are finished.