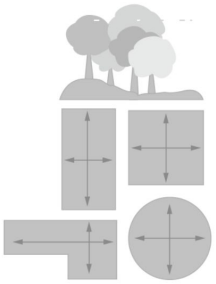

Carbon Cycle Flowchart with Standard Site Protocols

Use this flowchart to help you decide the best way to use the GLOBE Carbon Cycle materials in your classroom.

****Clickable links that lead to the individual Teacher Guide or Resource****

Teacher Preparation

- eTraining
- Background Information
- Science Standards
- Scientific Inquiry
- Curriculum Framing Questions

Introductory Activities: Carbon Cycle and Systems

(for Introductory Activities Flowchart, click here)

- Intro to Systems: Paperclip Simulation and Model
- Carbon Adventure Story
- Carbon Travels Game
- Getting to Know the Global Carbon Cycle

Plant-A-Plant Classroom Experiments

- *Teacher Guides*
- *Lab Guides*
- *Data Sheets*

Field

Field Learning Activities

- Percent cover
- Allometry
- Biomass Units

Protocols

- Site Selection
- Site Set-up

Tree Protocols:
How to Measure Trees, Mapping & Circumference
*If site has **any** trees >15 cm circumference*

+

Shrub/Sapling Protocol
If site has shrubs/saplings on >25% sample site

+

Herbaceous Protocol
If site has herbaceous vegetation on >50% sample site

Modeling Activities

- Biomass Accumulation Model
- Global Carbon Cycle Models:
  - Simple Model
  - Model with Feedbacks

Data Entry

Data Analysis

Assessment:

- Wrap-up Questions
- Unit Assessment