



Food and Climate Change

Lesson 4: Worksheet



1. What is a model? Draw a simple model in the space below.
2. One type of model that scientists commonly use is a box model. This shows flows of energy, light, or matter from one place to another. The carbon cycle can be drawn as a box model- draw the carbon box model below, with boxes for land, trees, ocean, and atmosphere and arrows indicating the dominant flows of carbon from one box to another.
3. Write down potential indicators of climate change impacts in your schoolyard and school garden.
4. Which soil that you tested had the best water-holding capacity? Describe that soil- color, texture, smell, structure. Do you think that soil had more or less carbon content than soils that didn't hold water as well?
5. What is the relationship between soil water-holding capacity and carbon content?