Charles River Study Guide:

Topographic Maps:

* Matching a profile to a topographic map
* Contour Lines
  + Contour Intervals
  + Map Scale
  + Identifying steep vs gentle slope
  + Identifying a depression
  + Determining the direction of a river
  + Determining the elevation at different spots
* Check over the Explore Learning notes, assessment, and topographic map packet

Charles River Watershed Facts:

* What is a watershed?
* How long is the Charles River
* Where does it flow from?
* Where does it flow to?

Water Quality Tests and Pollutants: Look at article on Nutrients in Lakes and Streams

* Know the effects of certain pollutants to the Charles and how these pollutants enter the river.
* What do the following tests indicate about the health of the river?
  + Nitrates
  + Phosphates
  + pH
  + Turbidity
  + Dissolved Oxygen
  + Temperature
* Define the following terms
  + Eutrophication
  + Algae bloom
  + Point source
  + Non point source
  + Runoff

Waste Water Treatment Plant: Briefly explain the following stages (Look at handout)

Primary Stage: Filter out big particles, sludge

Secondary Treatment: Add bacteria and aeration(oxygen) – decomposes waste

Tertiary Treatment: Disinfection with UV LIGHT, and more aeration