

The depth of water also determines some attributes of temperature

Lake Components

Water and Soil Nutrients (from outside or soil)

Phytoplankton and/or Aquatic Plants

Zooplankton

Fish

Birds

Amphibia

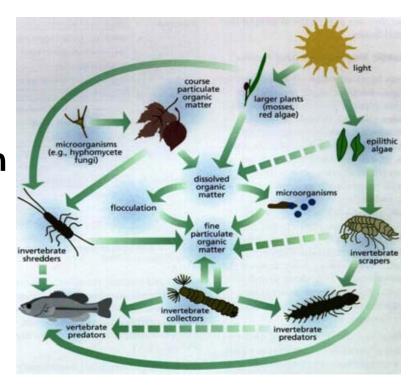
Ecosystem Processes

Energy flow Primary and Secondary production

Biogeochemical Cycling

Sediment-Water interaction

Atmosphere-water interaction



Catchment Interactions

Every Lake/Pond depends upon its catchment

Ecosystem Services

Provisioning

Regulating

Supporting

Cultural & Aesthetic

MANAGEMENT Objective: for Which Ecosystem Service(s)

Drinking Water

high quality – low nutrients

Recreation/Aesthetics

no pollution – garbage- weeds – algal blooms **Fisheries**

organic feeds – more nutrients –algae- plants

Agriculture

high water storage potential (low evaporation) No groundwater recharge

Microclimate regulation

larger water surface – volume

