

Measurement Tools of Water Quality

- Temperature
- pH Scale
- Amount of Oxygen
- · Amount of Nitrates and Phosphates
- Turbidity
- Invertebrates

Thermal Pollution

• Defined:
• When an activity causes the temperature of the water to change. Results in shock to aquatic life.

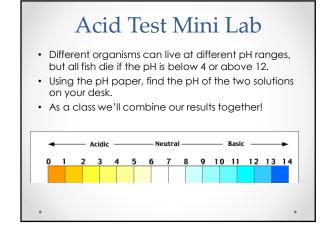
• Several Examples, Pick One!
- Change from lower to higher temperatures when water is used to cool power plants

- Change from higher to lower temperatures when cooler water at the base of a dam is released

- Cutting down trees along rivers and streams reduces shade and the water warms

- Soil erosion particles in the stream due to erosion absorb sunlight increasing water temperatures

pH Scale Definition: Helps determine the health of water. Ranges from 0-14. pH < 7 is acidic, pH > 7 is basic, pH = 7 is neutral Application: Most natural lakes and rivers in the US have a pH of 6.5-8.5.



Liquid	pH Value	Acidic, Neutral or Bas
Orange Juice		
Coffee Creamer		
Glass Cleaner		
Water (Tap)		
Lemon Juice		
Soap		
Soda		
Washing Detergent		
Coffee		
Rain		

