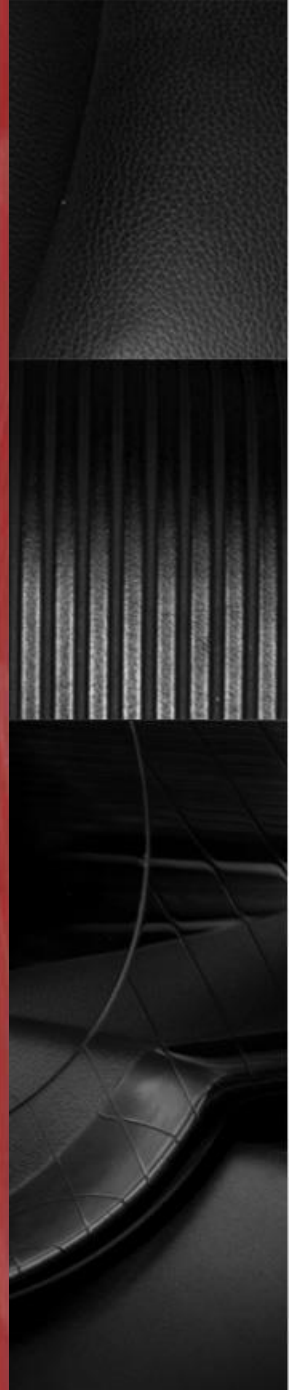


Temperature and Water Quality

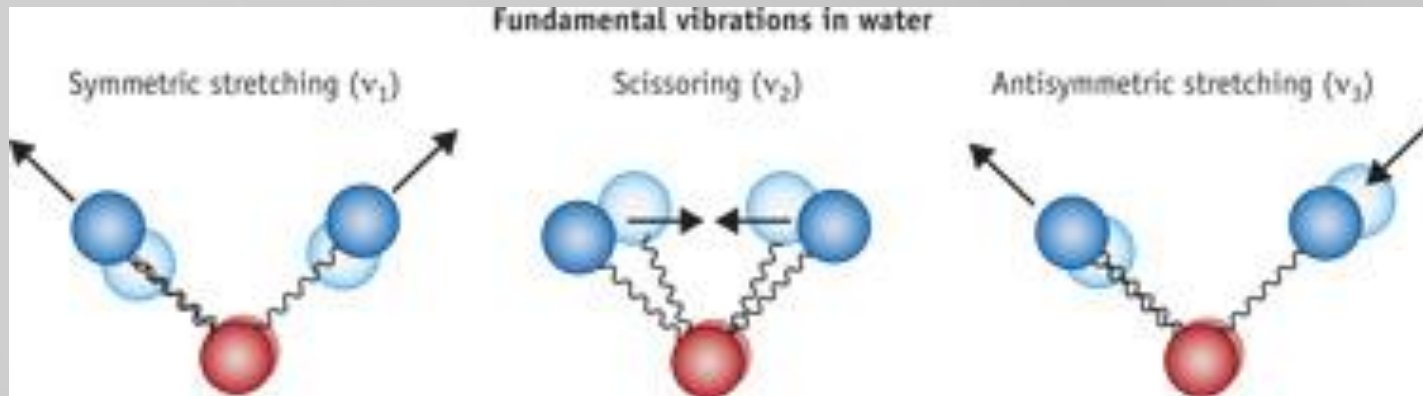
Field Ecology

Dan Bregar (Please put your name and your partner's name here!)



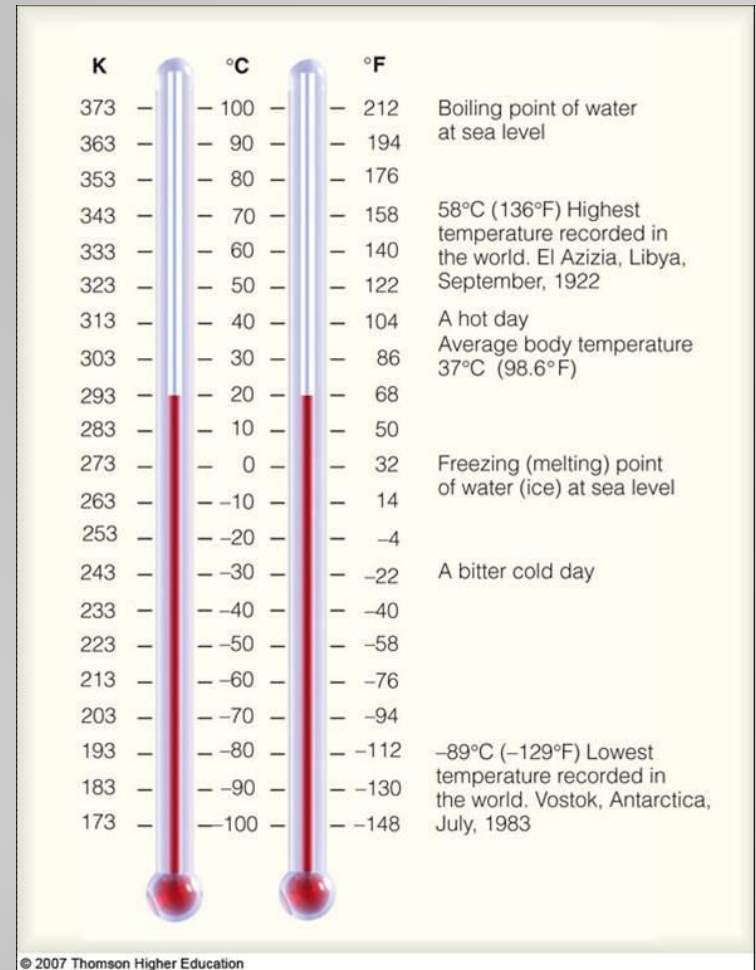
What is Temperature?

- Temperature is a measurement of the vibration of the individual atoms and molecules that make up a substance.
- This vibration is caused by energy – when certain types of energy are transferred into or out of something, its temperature goes up or down.



How is it measured?

- We can use a thermometer or a sensor to measure temperature.
- Temperature is measured in Fahrenheit degrees or in Celsius
- In Fahrenheit, 32 degrees is freezing and 212 is boiling. Room temperature is around 67-70.
- In Celsius, 0 is freezing and 100 is boiling. Room temperature is about 18-21.



Why is it Important?

- Chemical reactions generally occur at different rates when temperature changes. Therefore, all aquatic organisms are adapted to a particular temperature range that is best for their metabolism.
- Also, as temperature increases, the amount of dissolved oxygen in water decreases. Since many aquatic organisms depend on dissolved oxygen to breathe, water temperature can be critical.
- Finally, humans and other organisms often prefer to drink water that is relatively cool (room temperature or below).

