

Seasonal Lake Stratification

NAME: _____

DATE: _____

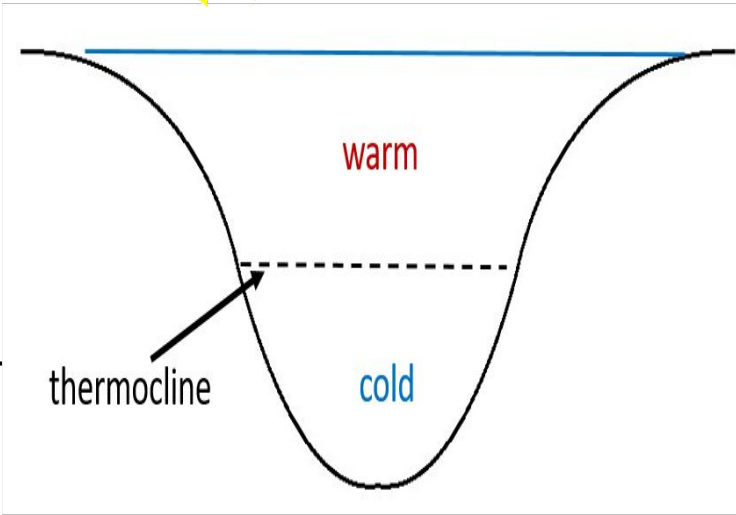
CLASS PERIOD: _____



Summer



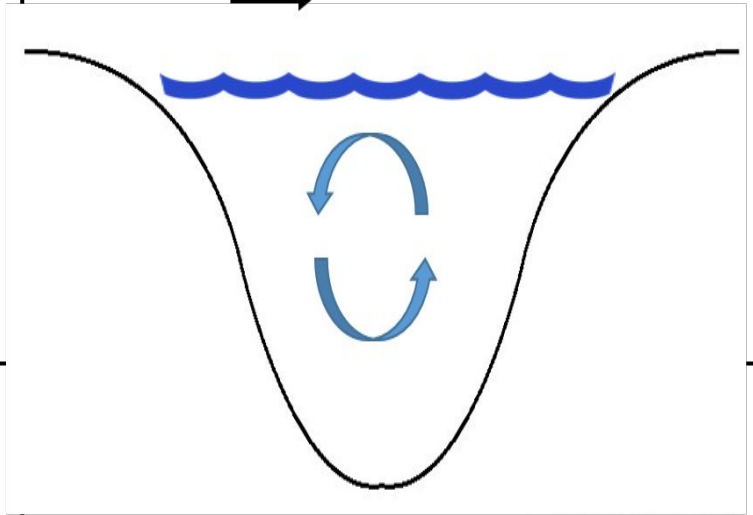
Summer



Fall

Fall turnover

Wind



Winter

Ice cover



cold

thermocline

warm



Spring turnover

Wind



In each of these boxes, draw what the lake will change in the different seasons. What would look different?

Answers vary, but seasonal change is described

What animals would behave differently?

Answers will vary, but discuss hibernation, mating cycles, etc.

What would the temperature of the lake be like at different times of year?

In the summer, the lake would be warmest, and the area of warm water would be the largest (on top) in the fall and spring the water would be cold from the top to the bottom because of the mixing by the wind. IN the winter, the cold water would be on the top, because of the ice, and the "warmer" water would be closer to the bottom of the lake