

AP Biology Supplemental – Q_{10} The Temperature Coefficient

Video Review Sheet

www.bozemanscience.com/q10-the-temperature-coefficient

1. Define Q_{10} :
2. How can you calculate a fish respiration rate? (Explain the process of experiment/collecting data.)
3. What is the equation to calculate Q_{10} ?
4. Calculate his sample data.
5. What is the range of most biological Q_{10} data and what does that mean?
6. What are some other possible “R’s” (rates) you could calculate using Q_{10} ?
7. Do you think it is possible for an organism to change their metabolic rate based on conditions in their environment? (Hint: look up acclimatization)