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ST.

Population Growth

$$\frac{dN}{dt} = B - D$$

Exponential Growth

$$\frac{dN}{dt} - r_{max}N$$

Logistic Growth

$$\frac{dN}{dt} - r_{\text{emax}} N \left(\frac{K - N}{K} \right)$$

Temperature Coefficient Q₁₀

$$Q_{10} = \left(\frac{k_2}{k_1}\right)^{\frac{10}{\ell_2 - \ell_2}}$$

Primary Productivity Calculation

$$\frac{\text{mg O}_2}{\text{L}} \times \frac{0.698 \text{ mL}}{\text{mg}} = \frac{\text{mL O}_2}{\text{L}}$$

$$\frac{\text{mL O}_2}{\text{L}} \times \frac{0.536 \text{ mg C fixed}}{\text{mL O}_2} = \frac{\text{mg C fixed}}{\text{L}}$$

(at standard temperature and pressure)

dY = amount of change

dt - change in time

B = birth rate

D = death rate

N = population size

K - carrying capacity

r_{max} = maximum per capita growth rate of population

 T_2 — higher temperature

 $T_1 = lower temperature$

 k_2 - reaction rate at T_2

 k_s = reaction rate at T_s

Q₁₀ — the factor by which the reaction rate increases when the temperature is mised by ten degrees Water Potential (4)

 $\Psi = \Psi_a + \Psi_a$

Ψ_n = pressure potential

Ψ_e - solute potential

The water potential will be equal to the solute potential of a solution in an open container because the pressure potential of the solution in an open container is zero.

The Solute Potential of a Solution

$$\Psi_{\kappa} = -iCRT$$

 ionization constant (this is 1.0 for sucrose because sucrose does not ionize in water)

C = molar concentration

R – pressure constant (R – 0.0831 liter bars/mole K)

T – temperature in Kelvin (°C + 273)

Surface Area and Volume

Volume of a Sphere

$$V = 4 \text{ mm}^3$$

Volume of a Rectangular Solid

V = Inch

Volume of a Right Cylinder

 $V = \pi r^2 h$

Surface Area of a Sphere

 $A = 4\pi r^2$

Surface Area of a Cube

 $A = 6a^2$

Surface Area of a Rectangular Solid

 $A = \sum$ surface area of each side

r = radius

I = length

h = beight

w = width

s = length of one side of a cube

A - surface area

V = volume

 Σ = sum of all

Dilution (used to create a dilute solution from a concentrated stock solution)

$$C_iV_i - C_iV_f$$

i = initial (starting) C = concentration of solute f = final (desired) V = volume of solution

Gibbs Free Energy

 $\Delta G - \Delta H - T\Delta S$

 ΔG = change in Gibbs free energy

ΔS - change in entropy

 ΔH = change in enthalpy

T - absolute temperature (in Kelvin)

 $pH^* = -\log_{10}[H^*]$

* For the purposes of the AP Exam, students will not be required to perform calculations using this equation; however, they must understand the underlying concepts and applications.

For use with labs only (optional).

Formula Biology

Tao Wei



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