Rate and Growth

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$$\frac{dY}{dt}$$

dY = amount of change

dt = change in time

Population Growth

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

B = birth rate

D = death rate

Exponential Growth

$$\frac{dN}{dt} = r_{\text{max}}N$$

N = population size

K = carrying capacity

Logistic Growth

$$\frac{dN}{dt} = r_{max}N\left(\frac{K - N}{K}\right)$$

 $r_{\text{max}} = \text{maximum per capita}$

growth rate of population

1 3

Water Potential (\P')

$$\Psi = \Psi_P + \Psi_S$$

 Ψ_p = pressure potential

 Ψ_s = 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

$$\Psi_S = -iCRT$$

 i = ionization constant (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)

 $pH = -\log[H^+]$

Simpson's Diversity Index

Diversity Index =
$$1 - \sum \left(\frac{n}{N}\right)^2$$

n = total number of organisms of a particular species

N = total number of organisms of all species

Surface Area and Volume

Surface Area of a Sphere

$$SA = 4\pi r^2$$

Volume of a Sphere

$$V = \frac{4}{3}\pi r^3$$

r = radius / = length

Volume of a Rectangular Solid

$$V = I wh$$

h = height

w = width

Surface Area of a Rectangular Solid

$$SA = 2\pi rh + 2\pi r^2$$

Volume of a Cylinder

$$V = \pi r^2 h$$

s = length of oneside of a cube

Surface Area of a Cube

SA = 2lh + 2lw + 2wh

$$SA = 6s^2$$

Volume of a Cube

$$V = s^3$$

SA = surface area

$$V = \text{volume}$$

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