# AP BIOLOGY EQUATIONS AND FORMULAS

#### Statistical Analysis and Probability

#### Mean

#### Standard Deviation®

$$\overline{x} = \frac{1}{n} \sum_{i=1}^{n} x_i$$

$$S = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n - 1}}$$

#### Standard Error of the Mean\*

$$SE_{T} = \frac{S}{\sqrt{n}}$$

$$\chi^2 = \sum \frac{(o-e)^2}{e}$$

#### Chi-Square Table

p value	Degrees of Freedom							
	1	2	3	4	5	6	7	- 8
0.05	3.84	5.99	7.82	9.49	11.07	12.59	14.07	15.51
0.01	6.64	9.21	11.34	13.28	15.09	16.81	18.48	20.09

#### Laws of Probability

If A and B are mutually exclusive, then:

$$P(A \text{ or } B) = P(A) + P(B)$$

If A and B are independent, then:

$$P(A \text{ and } B) = P(A) \times P(B)$$

#### Hardy-Weinberg Equations

$$p^2 + 2pq + q^2 = 1$$
  $p =$  frequency of the dominant allele in a population

$$p + q = 1$$
  $q =$  frequency of the recessive allele  
in a population

#### $\bar{x}$ = sample mean

n = size of the sample

 s = sample standard deviation (i.e., the sample-based estimate of the standard deviation of the population)

o = observed results

e - expected results

Degrees of freedom are equal to the number of distinct possible outcomes minus one.

#### Metric Prefixes

Factor	Prefix	Symbol
10*	giga	G
10"	mega	M
104	kilo	k
10-2	centi	c
10-1	milli	100
10*	micro	ju
10*	nano	n
10-42	pico	P

Mode = value that occurs most frequently in a data set

Median - middle value that separates the greater and lesser halves of a data set

Mean - sum of all data points divided by number of data points

Range = value obtained by subtracting the smallest observation (sample minimum) from the greatest (sample maximum)

\* 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.

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