

## AP® BIOLOGY EQUATIONS AND FORMULAS

### Statistical Analysis and Probability

#### Mean

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

#### Standard Deviation

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

#### Standard Error of the Mean

$$SE_{\bar{x}} = \frac{s}{\sqrt{n}}$$

#### Chi-Square

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

#### Chi-Square Table

P-value	Degrees of Freedom							
	1	2	3	4	5	6	7	8
0.05	3.84	5.99	7.81	9.49	11.07	12.59	14.07	15.51
0.01	6.63	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

$$p^2 + 2pq + q^2 = 1 \quad p = \text{frequency of allele 1 in a population}$$

$$p + q = 1 \quad q = \text{frequency of allele 2 in a population}$$

$\bar{x}$  = sample mean

n = sample size

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

o = observed results

e = expected results

$\Sigma$  = sum of all

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

#### Metric Prefixes

Factor	Prefix	Symbol
$10^9$	giga	G
$10^6$	mega	M
$10^3$	kilo	k
$10^{-3}$	deci	d
$10^{-6}$	centi	c
$10^{-9}$	milli	m
$10^{-12}$	micro	$\mu$
$10^{-15}$	nano	n
$10^{-18}$	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)

# Answer Key Ap Biology Equations And Formula Review

**Richard Bailey**

**Answer Key Ap Biology Equations And Formula Review:**

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