Assessment Reference Sheet Biology

Formula Name	Symbol	Formula
Average	$\bar{x}$ or Avg.	$$\frac{(a_1 + a_2 + ... a_n)}{n}$$ where n = number in set
Population Density − Area	ρ	$$\frac{\text{\# of individuals}}{\text{Area}}$$ where N = Population size
Population Growth Rate	PGR	$\frac{B - D}{t}$ where B = Birth, D = Death, t = time OR $$\frac{\text{final population} - \text{initial population}}{\text{initial population}}$$
Percentage	%	$\frac{\text{\# of favorable}}{\text{\# of possible}} \times 100$ OR $\frac{\text{part}}{\text{total}} = \frac{\text{part}}{100}$
Probability (Genetics)	P	$\frac{\text{\# of favorable outcomes}}{\text{\# of possible outcomes}}$
Rate	Rate	$\frac{\text{any unit}}{\text{time}}$
Surface Area − Square	A	$l \times w$ where l = length, w = width
Volume − Cube	V	$l \times w \times h$ or $1 \text{ cm}^3 = 1 \text{ mL}$ where l = length, w = width, h = height