## Name: KEY

## Relationship Types Summary

A graph is one of the most effective representations of the relationship between two variables. The independent variable (one controlled by the experimenter) is usually placed on the x-axis. The dependent variable (one that responds to changes in the independent variable) is usually placed on the y-axis. It is important for you to be able interpret a graphical relationship and express it in a written statement and by means of an equation.

Graph Shape	Relationship Type	Written Description	General Equation
yx	Hortzontal	As X TACRASES, Y stays the same	y = b
y x	Linear	As x increases, y increases constantly	y=mx +b
y A	nverse	As X increases, y decreases	$y = \frac{a}{x}$
y x	Quadratic	As X MCMases, Y MCMases exponentially	y =ax <sup>2</sup> +6

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