Relations and Functions

(Teacher Page)

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| **Relation**: comparison between 2 variables (x and y)* Height and weight
* Study time and grade
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| **Linear equation**: (one type of relation)* Constant Relationship between 2 variables
* Graphs are linear – straight lines
* 4 types of Graphs (Draw all 4 types: vertical, horizontal, upward from left to right, downward from left to right)
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| **Function**:1. special type of relationship between 2 variables (x and y)
2. 1 input (x) for each output (y)
3. Different Representation
* function rule: specific type of equation that is a function
* function table: set of values of a function
* graph of a function
	+ Do not have to be linear
	+ Cannot contain vertical sections throughout the graph
	+ Must pass the vertical line test
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| **Vertical Line Test**: a method used to determine if the graph of a relation is a function; a relation is a function if there are no vertical lines that intersect the graph at more than one point |