





What is the graph of a Linear Inequality going to look like?

Inequality	$y \leq mx + b$	$y < mx + b$	$y \geq mx + b$	$y > mx + b$
Boundary (function) Line	Solid \rightarrow function line includes Boundary Line (\longleftrightarrow)	Dashed \rightarrow function line NOT included in Boundary Line (\longleftrightarrow)	Solid \rightarrow function line includes Boundary Line (\longleftrightarrow)	Dashed \rightarrow function line NOT included in Boundary Line (\longleftrightarrow)
Shading (Range)	Below the Boundary Line 	Below the Boundary Line 	Above the Boundary Line 	Below the Boundary Line 

Points to keep in mind: Do whatever you have to do to put your information into the Slope-Intercept form. A linear inequality looks and graphs much like a linear function. If the 'm' value is positive, the inequality boundary line will slope upward. A negative 'm' value will mean a downward sloping boundary line. A positive 'b' value means the boundary line will intercept the y axis above the x axis and a negative 'b' value means the boundary line will intercept the y axis below the x axis.

