What is a Line?(First Worksheet)

How many lines are there? What is a quality about both of these lines?								
What is the name of the blue line? Green line? Blue Line								
Pink Line								
Move x along the slider, what does it do?								
Move b along the slider, what does it do? What is the point on blue line that is effected by b?								
Move m along the slider, what does it do?								
Move m so that it equals 0.4. Move b so that it equals 4.								
For the blue line y = When x = -5 what does y equal? (put -5 in the equation and solve for y)								
When x = 5 what does y equal? (put 5 in the equation and solve for y)								
When x = 3 what does y equal? (put 3 in the equation and solve for y)								
For the pink line y = When x = -4 what does y equal? (put -5 in the equation and solve for y)								
When x = 2 what does y equal? (put 5 in the equation and solve for y)								
When x = 5 what does y equal? (put 3 in the equation and solve for y)								

Move X along the slider until it equals each value listed in the following tables. Fill in the table for the blue line and for the pink line.

Blue

Х	-5	-3	-1	0	1	3	5
Υ							

Pink

Х	-5	-3	-1	0	1	3	5
Υ							

Takeaway: If you connect all of these points you get the line. A line is just a bunch of points that follow a pattern.

Components of a Line(Second Worksheet)

Move slider m so that m = 2 Move slider c so that c = 3

y = _____

Green Point (_____ , _____)

Move the black point on the line so that it is on the next whole point (no integers).

Black Point (_____ , ____)

What is the rise from the green point to the black point? What is the run from the green

point to the black point?

Rise = _____ Run = _____

Move slider m so that m = -2 Move slider c so that c = 1

y = _____

Green Point (_____ , _____)

Move the black point on the line so that it is on the next whole point (no integers).

Black Point (_____ , ____)

What is the rise from the green point to the black point? What is the run from the green point to the black point?

Rise =

Run = _____

Move slider m so that m = -1 Move slider c so that c = -2

y = _____

Green Point (_____ , ____)

Move the black point on the line so that it is on the next whole point (no integers).

Black Point (_____ , ____)

What is the rise from the green point to the black point? What is the run from the green point to the black point?

Rise = _____ Run = _____

Move slider m so that m = 3 Move slider c so that c = -1

y = _____

Green Point (_____ , _____)

Move the black point on the line so that it is on the next whole point (no integers).

Black Point (_____ , ____)

What is the rise from the green point to the black point? What is the run from the green

point to the black point?

Rise = _____ Run = _____

Where do you place m and c in the equation?

y = _____ x + _____

What does m do to the line? _____

What does c do to the line? _____

Create a Line(Last Worksheet)

Using what you learned above create the line shown using A and B. Hit New Line. Repeat(6x).