## Graphing Slope-Intercept

## Slope-Intercept Screen

Explore the parameters of the slope-intercept form of a line.

| Simplified equation |
| :--- |
| of line |


| DRAG the blue point |
| :--- |
| to change the slope |


| DRAG the pink point |
| :--- |
| to change the $y-$ |
| intercept |


| Use the point tool to |
| :--- |
| get the integer |
| coordinates of any |
| point |

## Game Screen

Challenges are random within each level, but increase in difficulty.

LEVELS 1-1: Set the Slope or Set the Y-Intercept by manipulating either the equation or the graph
Your Equation:
$y=\frac{\frac{1}{1}}{1} x-3$ $y=\frac{2}{3} x+\underline{\hat{0}}$

Choose Your Level


LEVELS 3-4: Make the
Equation, Graph the Line, or Put Points on Line



## Complex Controls

- If two points are stacked vertically on any screen, the slope will be displayed as undefined and a red x will appear over the equation.

See all activities for Graphing Slope-Intercept here.
For more tips on using PhET sims with your students, see Tips for Using PhET.


