

WHY:

Math is simply ONE way to make sense of the world around us. Sometimes, to understand, interpret, or analyze these “scenarios”, we can make use of linear models.

In order to be able to work with linear models, we need a repertoire of fundamental skills that we can use in the creation and analysis of these linear models

WHAT:

Linear Equations:

- Solve a multi-step equation with one variable (equations may have fractions or distributing, and the variable may appear more than once).
- Write and solve equations that represent real-world situations.
- Solve a literal equation for a specified variable (i.e., rearrange a formula for a specified variable).

Graphing Linear Equations:

- Know and be able to use the formula for slope.
- Given an equation in slope-intercept form, standard (general) form, or point-slope form, graph the corresponding line.
- Given a line, be able to write the corresponding linear equation in slope-intercept form, standard (general) form, or point-slope form.
- Be able to write the equations of horizontal and vertical lines.
- Use information about parallel or perpendicular lines when writing equations for lines.

