Unit 5: Linear Relations

Section	Topic	Learning Goal	Homework
6.1 1.5 days	The equation of a line in slope y-intercept form, $y = mx + b$	I can: ☐ Determine the equation of a line when given a graph ☐ **Summarize** what they learned from previous unit on the roles of m and b in the slope, y-intercept form of an equation ☐ **Determine** equations of vertical and horizontal lines ☐ **Graph** equations of a line using m & b ☐ **Determine** if a point is on a line graphically and algebraically ☐ **Solve** problems involving Linear Equations	p. 304#1-4, 6, 7-10 + worksheets
6.2 1 day	The equation of a line in standard form, $Ax + By + C = 0$	I can: ☐ **Rearrange** equations of a line in the form $y = mx + b$ in terms of x and y ☐ **Apply** their knowledge and skills to solve real world problems by interpreting the meaning of the slope and y-intercept ☐ Use table of values to **graph** a line	p. 312-314 #1-11
6.3 1.5 days	Graph a line using intercepts.	I can: ☐ **Distinguish** between slope-intercept form and Standard Form of an equation of a line ☐ **Rearranging** equations into proper standard form and identify the values of A, B, and C ☐ **Convert** equations in standard form and convert from standard form to slope y-intercept form ☐ Find the x- and y-intercepts when an equation is given. ☐ **Interpret** the meaning of the x & y-intercepts in a real-life application ☐ Graph a line when given an equation by finding the x- and y-intercepts	p. 319-322 #1-9, 11 + Why does the Poor Man Drink Coffee?

Section	Topic	Learning Goal	Homework
6.4 1 day	Parallel and perpendicular lines. "Investigating Slope"	I can: ☐ **Distinguish** between two lines that are parallel or perpendicular using their slopes ☐ **Determine** the equation of a line that is parallel or perpendicular to others	p. 327-329 #1-11, 13.
6.5 1 day	Find an equation for a line given the slope and a point.	I can: ☐ **Determine** an equation of a line given **(i)** a point and slope **(ii)** parallel or perpendicular to a line and a point ☐ **Apply** their knowledge and skills to a real-life application	p. 335-337 #1-6, 8, 11.
6.6 1 day	Find an equation for a line given two points.	I can: ☐ **Determine** an equation of a line given **(iii)** Two points ☐ **Apply** their knowledge and skills to a real-life application	p. 342-343 #1-10.
6.7 1 day	Linear Systems by graphing	I can: ☐ Practice solving a linear system by finding the point of intersection between two lines in-real world situations ☐ **Interpret** the Break Even point (point of intersection)	p. 348-351 #1-7, 9, 11, 12-14.
	Unit Review	Extra Handouts (a.k.a course pack) for Review	p. 352, 353 #1-18.
	Test		