

A SCHOOL-BASED STAFF DEVELOPMENT PLAN

INSERVICE SESSION	-theory and practice -assessment FOR learning -modelling
	TRIAL
DEMONSTRATION LESSONS	-modelling -observers focus on scripting 3 students -shared learning, collaboration
	PRACTICE
SHARED REFLECTION	-share process and product -conversations around student work -critical reflection on our behavior -focus on change in student learning
	BEGIN AGAIN

CRITICAL COMPONENTS:

- 5-6 sessions per year
- on-going cycles of assessment/planning/instruction/assessment
- framed by current research on effective teaching and by local performance standards
- 1 key focus per session
- K-7 teachers, administration and support personnel all work together; departments in secondary or volunteer interdisciplinary
- on-going parent communication
- 3 year implementation plan

LINES

Linear Equations

Line Segments

Perpendicular Lines
 $(m_1)(m_2) = -1$
 $a \rightarrow -\frac{1}{a}$
negative reciprocals

Midpoint Formula
 $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

Standard Form: $Ax + By + C = 0$
Solving for a variable

Midpoint of a line segment

Parallel & Perpendicular Lines

Parallel Lines
 $m_1 = m_2$

Slope

Length of a line segment

Intercepts
y-int $(0, b)$
x-int $(a, 0)$

rise
run
 $m = \frac{y_2 - y_1}{x_2 - x_1}$

Distance Formula
 $d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$

Distance between two points

Pythagorus
 $a^2 + b^2 = c^2$

Slope as rate of change

Calculator skills?

Simplifying radicals
 $\sqrt{20} = 2\sqrt{5}$

Graphing Linear Equations

Slope y-int Form
 $y = mx + b$

Point Slope Form
 $y - y_1 = m(x - x_1)$

Finding the Equation of a Line

Point, Slope two point

