Name: Frederick Brooks	Grade/Subject: 9 <sup>th</sup> / Algebra Date:		
1. Texas Essential Knowledge and Skills (TEKS): (C2)			
The student applies the mathematical process standards when using properties of linear functions to write and represent in multiple ways, with and without technology, linear equations, inequalities, and systems of equations.			
2. Deconstructing/Unpacking the TEKS: (C2) <u>What students will know and be able to do</u>			
write linear equations in two variables in various forms, including $y = mx + b$ , $Ax + By = C$ , and $y - y1 = m(x - x1)$ , given one point and the slope and given two points;			
3. SMART	By the end of this lesson, in small groups, students will write linear equations using the form		
<b>Objective(s): (C3)</b>	y=mx+b and giving y-intercept and the slope.		
Essential Question:	What part of the equation gives you the y-intercept?		
4. Central Focus (C4) How will this lesson link with other lessons in the unit?	The purpose of this lesson is to build up students' previous knowledge of knowing points, slope, and y-intercept. The students will learn how to write equations in slope intercept form when giving points. This lesson adds knowledge to use to write other equations that will lead to graphing later.		
Learning Targets <u>I CAN statements that</u> <u>Clearly show alignment</u> <u>with TEKS</u>	I can Identify and write equations when giving points and slopes.		
<ul> <li>5. Academic Language (C5)</li> <li>Academic language represents the language of the discipline that</li> </ul>	Language Function (an active verb that students will use to demonstrate their learning in the assessments; some examples are- explain, describe, predict, summarize, compare, evaluate, interpret, justify): Students will explain how and where to put the slope and y-intercept into equations.		
students need to learn and use to engage in the content area in meaningful ways.	<b>Vocabulary</b> (words, phrases, and/or symbols that are used within disciplines): Slope, y-intercept, add, dived.		
There are 4 <u>language</u> demands to consider as	<b>Discourse</b> (Structures of written and oral language, how will they talk, write, and participate in knowledge construction: discussions, reports, essays, multi-media presentations, performance):		
you require students to read, write, speak, listen, demonstrate and perform.	Students will talk and discuss with a partner how to write point-slope equations using points and slope.		
	<b>Syntax</b> ( <i>The set of conventions for organizing symbols, words, and phrases together into structures, e.g., graphic organizers, formulas, charts, language rules, outlines, graphs, tables</i> ):		
	Students will look at the formula chart and find the point-slope formulas. Then students will graph the point-slope formula.		

6. Targeted Language	Language Function (How will you help them demonstrate the DO verb?)
Supports (C5)	
The resources,	
representations, and	
strategies you will	Vocabulary Strategies - (GO TO Page)
provide to help students	
practice the concepts and	Define slope, y-intercept
language they need to	2 Define coordinates and label
learn within the	2. Define coordinates and faber
discipline	
uiseipinie	Discourse strategies - (GO TO Page)
Site the researcher's	-Write: Students will write point-slope equations using points and slope.
name as you refer to the	write. Stadents will write point slope equations using points and slope.
strategy.	
6,	
	-Talk: Students will talk and discuss with a partner where the slope is located.
	Syntax - (GO TO Page)
	1. formula chart
	2. they will use the math wall
	Making Content Comprehensible (R9)
7 Agggggggggt	Aggggment of your TEV
7. Assessment/	Assessment of your TEK
7. Assessment/ Evaluation (C6)	Assessment of your TEK Formative:
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Closure (C7)	Closure Activity: (make connections to prior learning)
	By showing how you can look at equations to find the slope and showing the students.
Student Assets (C7)	Personal assets: a chance to one on one Cultural assets: students working together Community assets:
9. Body of Lesson/	
Teaching Strategies and Learning Task(s) (C9)	I DO – I will modle each lesson
<b>Be sure to include:</b> How will students learn and use <i>academic</i> <i>language</i> ?	WE DO – we answer and model together as a class on the equation
Three higher order thinking questions.	
Marzano Strategy	YOU DO – I will have the students on the problem independently.
	<ul> <li>Differentiation-(GO TO page) (Tailoring instruction to meet individual needs; differentiating the content, process, product, and/or learning environment):</li> <li>Second Language learners / Cultural Diversity: I will have more examples and cards with the steps</li> </ul>
	<ul> <li>Gifted / advanced learners: I will have more challenging work</li> </ul>
	<b>Technology:</b> -(GO TO page) Will use a calculator, math programs,
	Marzano Strategy - (GO TO page) using problems from past standardized tests.
	<ul> <li>Higher Order Thinking Questions (GO TO page)</li> <li>1. How do you find a slope equation when the slope is not giving</li> <li>In the equation?</li> <li>2. How do you find the slope and y-intercept in the equation?</li> <li>3. if you have three coordinates can you still make a point slope equations?</li> </ul>
	Grouping / Partnering Technique: (Hattie)

	Potential misconceptions and your plan to address it:
10. Resources and materials needed (C9)	
(E7)	(How might you differentiate materials and resources for learners with various needs?) They use graph paper, makers, calculators, PowerPoint, pencils, sticky notes, and cards
	SUBMIT LPG and SELF EVALUATION RUBRIC – C9
11. Classroom Management Strategies (CBM5) What procedures will you employ to manage transitions, behavior, passing out materials, engagement, etc.?	Establish rules for a group. Establish group leaders. Establish the routine for the work that's needed. Rasie your hand with number 3 to get quite. A signal for the restroom. A signal for the nurse.
Add 3 procedures	
12. Academic Supports for Students (E6) What instructional strategies and planned supports, will you employ to meet the needs of each student that has identified special learning needs? (E11)	Accommodation(s)- (A change that helps a student overcome or work around obstacles): 1. formula charts 2. extra time 3. give examples on worksheets Modification(s)- (A change in what is being taught or what is expected from the student): 1. Do fill in the blanks. 2. multiple choice just a and b only 3. when doing flashcards just finding the slope only Strategies for ELLs (strategies that support language acquisition) 1. show visual 2. shorten steps 3. allow extra time 4. show videos with caption
	5. Model for the students