PCSD Lesson Planning Template

Grade Level 9th Algebra I	Teacher/Ro	oom: S. Pinson/Room 182	Week of: March 13-	-17, 2017
Unit Vocabulary: see attached				
Instructional Strategies Used: direct instruction, independent study, interactive instruction, partners				
<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
GSE Standard(s):	GSE Standard(s):	GSE Standard(s):	GSE Standard(s):	GSE Standard(s):
MGSE9–12.A.REI.4b Solve quadratic equations by taking square roots, factoring, completing the square, and the quadratic formula, as appropriate to the initial form of the equation.	MGSE9–12.A.REI.4b Solve quadratic equations by taking square roots, factoring, completing the square, and the quadratic formula, as appropriate to the initial form of the equation.	MGSE9–12.A.REI.4b Solve quadratic equations by taking square roots, factoring, completing the square, and the quadratic formula, as appropriate to the initial form of the equation.	MGSE9–12.A.REI.4b Solve quadratic equations by taking square roots, factoring, completing the square, and the quadratic formula, as appropriate to the initial form of the equation.	MGSE9–12.A.REI.4b Solve quadratic equations by taking square roots, factoring, completing the square, and the quadratic formula, as appropriate to the initial form of the equation.
EQ Question: How do I choose the most efficient method of solving quadratic equations?	EQ Question: How do I choose the most efficient method of solving quadratic equations?	EQ Question: How do I choose the most efficient method of solving quadratic equations?	EQ Question: How do I choose the most efficient method of solving quadratic equations?	EQ Question: How do I choose the most efficient method of solving quadratic equations?
Mini Lesson: solving quadratic	Mini Lesson: Computer Lab	Mini Lesson: 24	Mini Lesson: Computer Lab	Mini Lesson: Quick Review
equations tic-tac-toe			Activating Strategies:	
Activating Strategies: Who solves it first?	Activating Strategies: Instructions for Lab	Activating Strategies: How do you take half of a number? Of a fraction?	https://www.youtube.com/watch? v=ipw59N43k5o	Activating Strategies: Ask the teacher questions
Lesson: Solving Quadratics by Factoring and Quadratic Formula 1. Practice on choosing best method. 2. Quiz: solving quadratics by factoring and quadratic formula Resource/Materials: Powerpoint, quizzes, worksheet	Lesson: Solving Quadratics with Square Roots and Completing the Square 1. Computer Lab – USATestPrep 2. Guided Notes 3. Assignment Resource/Materials: logins, worksheets	Lesson: Solving Quadratics by Completing the Square 1. Guided Practice 2. Assignment Resource/Materials: powerpoint, worksheets	Lesson: Picking Methods and Reviewing 1. Computer Lab – USATestPrep 2. Quick Review 3. Guided notes 4. Guided practice 5. Assignment Resource/Materials: logins, review sheets	Test: Solving Quadratic Equations Resource/Materials: tests
Differentiation: Content/Process/Product: whiteboards Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: whiteboards, USATestPrep Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: whiteboards Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: whiteboards, USATestPrep Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: Grouping Strategy: Assessment:
Assessment: Formative: thumbs up/down, quiz Summative:	Assessment: Formative: thumbs up/down, quiz Summative:	Assessment: Formative: thumbs up/down, quiz Summative:	Assessment: Formative: thumbs up/down, quiz Summative:	Assessment : Formative: Summative: test
Homework: Worksheet	Homework: Worksheet	Homework: Worksheet	Homework: review sheets	Homework: none

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- Complete factorization over the integers. Writing a polynomial as a product of polynomials so that none of the factors is the number 1, there is at most one factor of degree zero, each polynomial factor has degree less than or equal to the degree of the product polynomial, each polynomial factor has all integer coefficients, and none of the factor polynomial can written as such a product.
- **Completing the square**. Completing the Square is the process of converting a quadratic equation into a perfect square trinomial by adding or subtracting terms on both sides.
- **Difference of two squares**. A squared (multiplied by itself) number subtracted from another squared number. It refers to the identity $a^2 b^2 = (a + b)(a b)$ in elementary algebra.
- **Discriminant of a quadratic equation**. The discriminant of a quadratic equation of the form $ax^2 + bx + c = 0$, a $\neq 0$, is the number $b^2 4ac$.
- Horizontal shift. A rigid transformation of a graph in a horizontal direction, either left or right.
- Perfect square trinomial. A trinomial that factors into two identical binomial factors.
- Quadratic equation. An equation of degree 2, which has at most two solutions.
- Quadratic function. A function of degree 2 which has a graph that "turns around" once, resembling an umbrella—like curve that faces either right—side up or upside down. This graph is called a parabola.
- **Root**. The x-values where the function has a value of zero.
- Standard form of a quadratic function. $ax^2 + bx + c$
- **Vertex**. The maximum or minimum value of a parabola, either in terms of y if the parabola is opening up or down, or in terms of x if the parabola is opening left or right.
- Vertex form of a quadratic function. A formula for a quadratic equation of the form $f(x) = a(x h)^2 + k$, where a is a nonzero constant and the vertex of the graph is the point (h, k).