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| **Name:** | **David Young** | | | **Subject:** | **Algebra 2** | | | **Week of:** | **9/23/2013** | |
| **Lesson Plans** | | | | | | | | | | |
|  | | **Monday:** | **Tuesday:** | | | **Wednesday:** | **Thursday:** | | | **Friday:** |
| **Statement of**  **Objective(s)/**  **Think, Know,**  **Do(start with a verb)** | | **Students will solve quadratics by applying graphing concepts (x intercepts) to each function. Students will connect the disciplines of root finding and factoring.** | **Students will continue to to solve quadratics by using graphing techniques and algebraic manipulations.** | | | **Review Quiz Day** | **Students will learn and apply the complete the square method** | | | **Students will review complete the square method and other techniques for solving quadratics.** |
| **Anticipatory**  **Set/Opening** | | **WRITE ABOUT which factoring technique you feel most comfortable and least comfortable with. WHY?** | **Analyze the quadratic:**  **G(x) = - 8 + 1** | | | **Review Quiz Day** | **WRITE ABOUT at least 2 different ways you could find the solutions to 2 – x + 3 = 0.** | | | **With a partner decide how you would solve the following quadratic:**  **= 2x – 6.**  **WRITE ABOUT why you would choose that technique** |
| **Learning**  **Activities** | | **Students will use calculators to graph quadratics and identify x intercepts.**  Textbook pg 339: #47,60-63,67-70  **Students explore the connections between the actual x intercepts and the linear factors of a quadratic. – Partner Posing** | **Student notes on factoring.**  **Partner Work:**  **Students solve various quadratic equations.**  **Partner checks with alternative method.**  **(Can use problems from WS 5.3 if needed)** | | | **Quiz for 5.2 and 5.3** | **Student Notes**  **In pairs or groups, students will take turns working/checking each step of complete the square technique.**  **WORKSHEET 5.4** | | | **Gallery Walk around the room and answer the exploration questions – See file for list of questions. Must JUSTIFY your conclusions** |
| **Assessment of**  **Student**  **Understanding**  **/Closure** | | **Observe/monitor student progress on worksheet.** | **Exit ticket:**  **Explain what it means to solve the following problem:**  **x^(2 )-4x=5.** | | | **Parking Lot: Is there anything you are confused about?** | **Parking Lot: Do you have any questions about the complete the square method?** | | | **Observe and monitor Gallery Walk progress** |