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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) =** $2x^{2}$**- 8 + 1** | **Review Quiz Day** | **WRITE ABOUT at least 2 different ways you could find the solutions to 2**$x^{2}$ **– x + 3 = 0.**  | **With a partner decide how you would solve the following quadratic:**$x^{2}$ **= 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** |