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| **Name:** | **David Young** | **Subject:** | **Algebra 2**  | **Week of:**  | **August 19 – 23, 2013** |
| **Lesson Plans** |
|  | **Monday:** | **Tuesday:** | **Wednesday:** | **Thursday:** | **Friday:** |
| **Statement of** **Objective(s)/****Think, Know,****Do(start with a verb)** | **Course Description / Welcome Activities: Students will LEARN the course expectations, objectives, grading scale, resources available** | **Parent Functions: Students will learn the graphs of common parent functions, along with the equations that generate them**  [**F.BF.3: ]** | **Graphing Calculator Investigations: Students will develop transformations of function rules through investigation [** **F-IF.4, F-IF.6, and F-IF.9.}** | **Graphing Calculator Investigations, continued: Students will develop transformations of function rules through investigation[** **F-IF.4, F-IF.6, and F-IF.9.}** | **Transformation Rules for Functions: Students will apply transformation rules to manipulate or evaluate functions (Transformation worksheet 1)[** **F-IF.4, F-IF.6, and F-IF.9.}** |
| **Anticipatory****Set/Opening** | **Course Newsletter / Welcome**  | **MathOps – Targeted Math Instruction online**<http://www.mathops.com/free/a1fn017.php> | **Students will think/pair/share prior knowledge of graph movement (transformations)** | **Quick Polls to determine progress of investigations** | **Where oh Where did my little function go? Brief activity to determine basic understanding of transformation rules** |
| **Learning****Activities** | **WHO I AM – Students will fill out a “getting to know you” sheet and share “favorites”; pair and share summer experiences, favorites, etc.** | **Students will work together to match graphs with equations using prior knowledge and mathematical reasoning, without technology. Teams / Pairs will present / defend their matches. Technology may be used to determine accuracy after matching exercise.** | **Investigations Worksheet – students will work together through the Investigations Exercise to predict graph movement and corresponding equation form** | **Continue Investigations Worksheet – teams / Pairs will share outcomes, finalize hypotheses of transformation rules and defend with technology**  | **Pair / Group work on Transformation Worksheet 1 – collaborative problem solving: applying rules of transformations to verbal descriptions of movement, creating new functions from verbal descriptions** |
| **Assessment of****Student****Understanding****/Closure** | **Observe student participation, check for understanding of procedures and resource locations** | **Observe student interaction during group / pair activity, exit ticket** | **Parent Function Practice Quiz 1 – assess understanding of basic functions and their equations, observation of investigations work** | **Observation of student participation and understanding / exit tickets for further questions** | **Parent Function Practice Quiz 2 -** **Observation of collaborative efforts by students** |