

Algebra 2 Lesson 1.2 – Day 1: Transformations of Linear and Absolute Value Functions

Essential Question: How do the graphs of $y = f(x) + k$, $y = f(x - h)$, and $y = -f(x)$ compare to the graph of the parent function f ?

Lesson Objective(s): Students will write functions representing translations and reflections. Students will write functions representing stretches and shrinks. Students will write functions representing combinations of transformations.	CC State Standards	CC Mathematical Practice Focus
Previous Learning: Transformation of functions was introduced in Algebra 1, and students transformed geometric figures in Geometry.	HSF-BF.B.3	MP2, MP3, MP5

Monday: Teacher Instruction using **Student Journal and Chapter 1 Summary** to define translations, reflections, stretch/shrink, and combos.

Tuesday: Complete **Puzzletime 1.1** and **Practice A 1.2 # 1-13 odds** only on graph paper.

Wednesday: Review odds and do the **evens {Practice A 1.2 with the graphing calculator}** then transfer to the paper.

Thursday: Complete **Practice B 1.2 ALL** and she may use the graphing calculator or by hand. Label three **CRITICAL** points such as intercepts and vertex.

Friday: Complete the **Puzzletime 1.2** as Exit Ticket with work shown but check with coded riddle.