

Transformations of Quadratic Functions

	Transformation	Graph
$f(x) = x^2 + k$	<p>If k is positive the parabola shifts vertically "k" units up</p> <p>If k is negative the parabola shifts vertically "k" units down</p>	
$f(x) = (x + h)^2$	<p>If h is positive the parabola shifts horizontally "h" units left</p> <p>If h is negative the parabola shifts horizontally "h" units right</p>	
$f(x) = ax^2$	<p>If a is bigger than 1 the parabola compresses (shrink)</p> <p>If a is between 0 and 1 (fraction/decimal) the parabola stretches</p> <p>If a is negative the parabola reflects across the x-axis</p>	