# Quadratics in Vertex Form: 

## Increasing and Decreasing

A quadratic can be written in many forms:

- Vertex Form: $y=a(x-h)^{2}+k$
- Transformation Form: $y=a(b x-c)+d$
- Factor Form: $y=a(x-b)(x-c)$
- Standard Form: $y=a x^{2}+b x+c$

This station will focus on what interval(s) [or "when" $x$-values] a function is increasing and on what intervals [or "when" $x$-values] it is decreasing. The maximum/minimum is the break point used.


