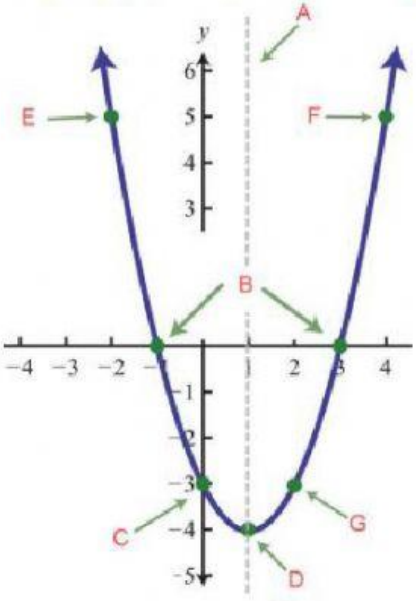
FLUENCY CHALLENGE

LESSON 2-1: **Graphing Quadratic Functions**

Describe a Quadratic Function?	It is a line through the graph of a parabola that divides the graph into two congruent halves
When does a Quadratic Function have a Maximum?	The point where axis of symmetry intersects the parabola
When does a Quadratic Function have a Minimum?	c
What are the key values when a function is written in Standard Form $ax^2 + bx + c$	a, b, c
What is a Vertex?	$x = \frac{-b}{2a}$
What is axis of symmetry	When "a" is Positive
y-intercept of a quadratic function $ax^2 + bx + c$	A function where the biggest power on x is 2
Equation of the axis of symmetry	When "a "is Negative

Use the diagram to match the objects below:



Vertex: _____

Axis of Symmetry: _____

X-Intercept(s): _____

Y- Intercept(s): _____