UNIT 5: QUADRATIC RELATIONS

| Day	Topic	Practice
1	Intro to Quadratic Relations & Graphing	Graphing Parabolas Using Table of Values
2	Key Features of the Parabola	- Axis of Symmetry - x-intercepts (zeros) - y-intercept (and its reflected point) - Direction of opening - Vertex
3	**QUIZ** Characteristic of Quadratic Relations	Using First and Second Differences Distinguish between Linear and Quadratic
4	Standard and Factored Form of a Quadratic Equation $y = ax^2 + bx + c$ $\qquad$ $y = a(x-r)(x-s)$	- y – intercept - x – intercepts by factoring
5	**QUIZ** Standard Form of a Quadratic Equation	Graph using Key Features
6	Quadratic Word Problems	Solve Real-Life questions
7	Assignment	
8	Review and Practise Test	
9	**UNIT TEST**	

Graphing Using Vertex Form

$$y = a(x - h)^2 + k$$

Vertex: (h, k)

Axis of symmetry: x = h

VERTICAL LINE

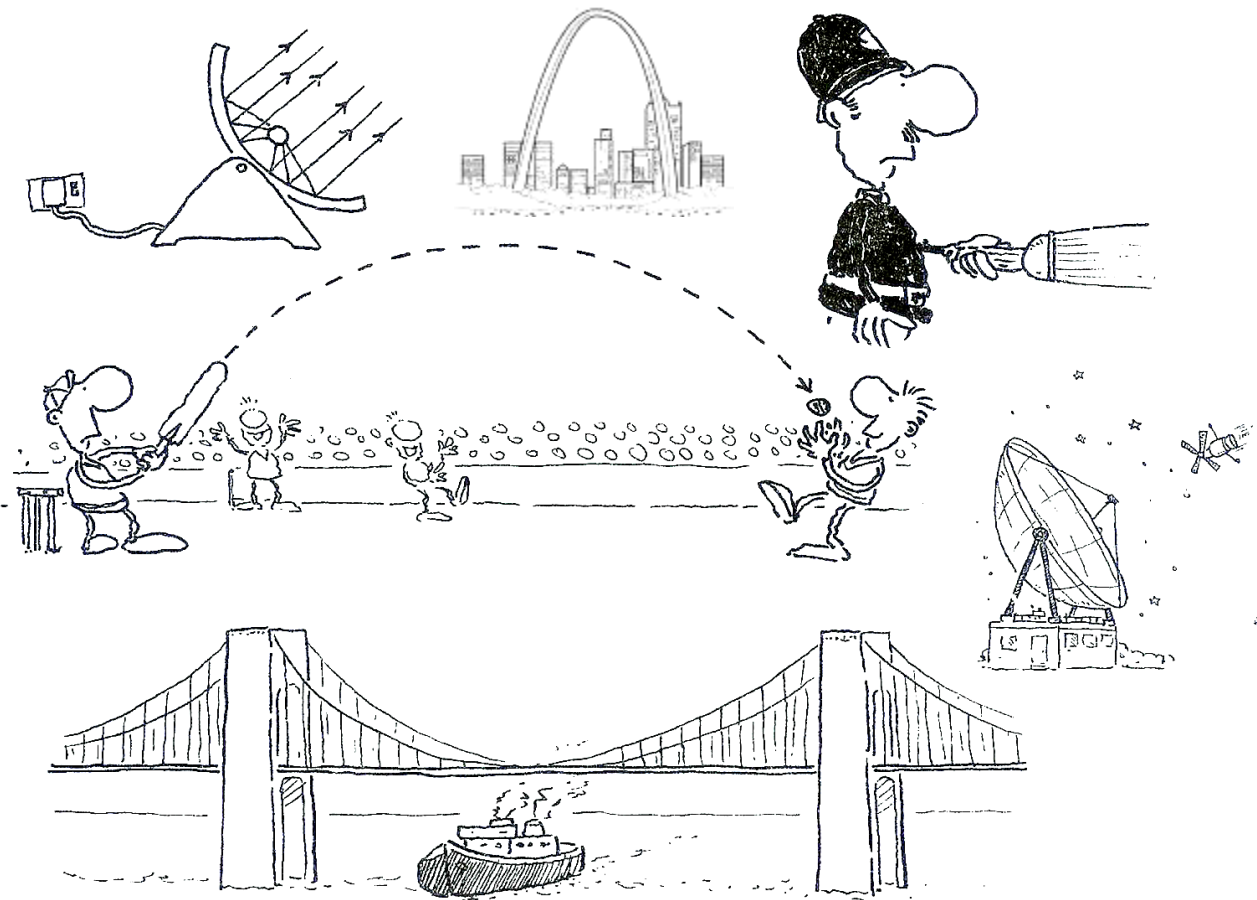If a is positive, then it opens up.

If a is negative, then it opens down.
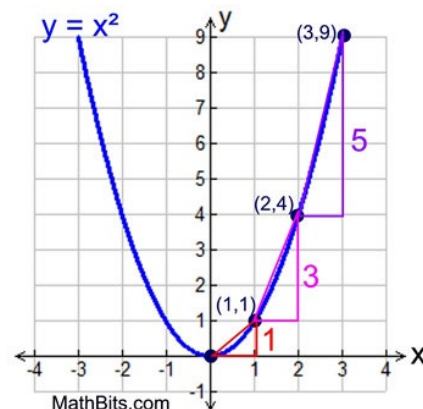
AN INTRODUCTION TO QUADRATIC RELATIONS

The graph that characterizes a _____ is a _____ called a

_____ that is expressed in the form _____. Note the _____ term.

The **parabolic curve** is very common in: a) _____, b) _____, c)

_____.

Some examples of parabolic curves:

What other parabolic curves can you think of?