Quadratics are everywhere – A Project

Overall Expectations

- 1. Expand and simplify quadratic expressions, solve quadratic equations, and relate the roots of a quadratic equation to the corresponding graph;
- 2. Demonstrate an understanding of functions, and make connections between the numeric, graphical, and algebraic representations of quadratic functions;
- 3. Solve problems involving quadratic functions, including problems arising from real-world applications.

Rubric for Final Presentation

	1	2	3	4
Problem solving	uses critical/	uses critical/	uses critical/	uses critical/
	creative thinking	creative thinking	creative thinking	creative thinking
	processes	processes	processes	processes
	with limited	with some	with considerable	with a high degree of
	effectiveness	effectiveness	effectiveness	effectiveness
Reasoning and	demonstrates logical	demonstrates logical	demonstrates logical	demonstrates logical
proving	reasoning and	reasoning and	reasoning and	reasoning and
	proving skills with	proving skills with	proving skills with	proving skills with a
	limited effectiveness	some effectiveness	considerable	high degree of
			effectiveness	effectiveness
Connecting	makes connections	makes connections	makes connections	makes connections
	within and between	within and between	within and between	within and between
	various contexts	various contexts	various contexts	various contexts
	with limited	with some	with considerable	with a high degree
	effectiveness	effectiveness	effectiveness	of effectiveness
Representing	uses conventions,	uses conventions,	uses conventions,	uses conventions,
	graphing, and	graphing, and	graphing, and	graphing, and
	mathematical	mathematical	mathematical	mathematical
	terminology with	terminology with	terminology with	terminology with a
	limited effectiveness	some effectiveness	considerable	high degree of
			effectiveness	effectiveness
Communicating	expresses and	expresses and	expresses and	expresses and
	organizes	organizes	organizes	organizes
	mathematical	mathematical	mathematical	mathematical
	thinking with limited	thinking with some	thinking with	thinking with a high
	effectiveness	effectiveness	considerable	degree of
			effectiveness	effectiveness