

## Unit 3: Polynomial Functions — Roller Coaster Project

Criteria	4 – Excellent	3 – Good	2 – Fair	1 – Poor	0 – Missing
<b>Polynomial Construction</b>	Correct polynomial degree, zeros included, clear justification	Polynomial mostly correct; small error	Missing one zero or degree mismatch	Barely attempted	None
<b>Analysis of Features</b>	End behavior, turning points, intercepts correct & explained	Most features correct; minor error	Partial analysis (missing turning points or intercepts)	Minimal attempt	None
<b>Realism of Design</b>	Graph smooth, realistic roller coaster shape	Graph reasonable but less realistic	Rough resemblance but incomplete	Minimal effort	None
<b>Math Accuracy</b>	All factoring, graphing, calculations correct	Small arithmetic errors only	Several errors affect accuracy	Mostly incorrect	None
<b>Creativity &amp; Visuals</b>	Unique design, neat, visually engaging	Clear but less creative	Plain/simple	Minimal effort	None