Name: _		Date:
Rocket S	cience Investigation	
50 m/s. the metr	Assume that it trave	its engine shuts down when it is 25 m above the ground. Its velocity at that time is s straight up and that the only force acting on it is the downward pull of gravity. In ration due to gravity is 9.8 m/s². The quadratic function $h(t) = \frac{1}{2}(-9.8)t^2 + 50t + 25$ rile motion.
Step 1:	Define the function	variables and their units of measure for this situation.
Step 2:	What is the real-wor	old meaning of $h(0) = 25$?
Step 3:	How is the accelerat	ion due to gravity, or g , represented in the equation? How does the equation show
	that this force is do	wnward?
Next, yo	u'll make a graph of tl	ne situation using Desmos.
Step 4:	Graph the function $h(t)$. What viewing window shows all the important parts of the parabola?	
	Xmin:	Ymin:
	Xmax:	Ymax:
	Xscl:	Yscl:
Step 5:	p 5: How high does the rocket fly before falling back to Earth? When does it reach this point?	

