Energetic Exercises	Name:		Block:	Date:
Let $g = 9.80 \text{ m/s}^2$. Solve it's clear what approach ye	these questions using conc ou took.	cepts of <u>Work and En</u>	<u>iergy</u> . Show you	ar initial equations so that
The state of the s	n a scaffold 10.0 meters hig I the bucket be traveling w		_	he scaffold with a speed of
			An	s:
	ch on Opening Day hits the meters above the level of			
			An	s:
1.3) You throw somethin	g at 5.0 m/sec, and it hits	the ground at 8.0 m/s	sec. How far al	pove ground level are you?
			An	s:
	ass 0.160 kg is zipping alon That average friction force		rs a 10.0 m lon	g stretch of rough ice and
			An	s:
forgotten something!) Your	he way to pick up your dat 1000.0 kg car is moving a will it coast before it stops?	t 15.0 m/sec at the m		

Ans:

Energetic Exercises

2.3) Ixnorx the alien astronaut is traveling in deep space at what would be, in mere earlis ship with a mass of 12,000.0 kg. He fires his booster rocket, exerting a force of 20 10,000.0 m. How fast is he going now?	
3.1) A 0.0500 kg pine cone falls from a high branch 20.0 meters above the forest floo	Ans:
the head at 4.00 m/s. What average resistive force did the branches generate on the v	
3.2) A mild earthquake shakes a 500.0 kg boulder loose from the top of a hill. It rum	
slope and comes to rest at a level 800.0 meters below its starting level. What average experience on the way down?	resistive force did the stone
	Ans:
3.3) Let's imagine that a bullet with a mass of 5.00 grams leaves a rifle at 400.0 m/s a resistive force of 0.00100 N. How high can the bullet rise if fired straight up?	nd experiences an average
	Ans: