Chapt	er 🥬:	Energy and Power	page 12	Name		
Vork	sheet:	Determining Kinetic Energy		Period	Date	
Fram	eworks	Code)				
Recall follow	that th	e formula for calculating kinetic energoblems. Be sure to show the four step	gy is: KE=1/2mv set-up.	<sup>,2</sup> . Manipulate thi	is formula to answer the	e
		tah can run at a speed of 31 m/s. If a tic energy be?	cheetah with a m	ass of 47 kg runs	at this speed, what wo	ulc
	A 725 l velocity	kg automobile has a kinetic energy of y?	302,000 J as it tra	avels along the hi	ghway. What is the car	r's
	A basel	ball is pitched with a speed of 35 m/s.	. If the baseball h	as a mass of 0.14	6 kg, what is its kinetic	2
		et train can reach speed of 76.4 m/s. Venergy is 2,780,000,000?	What is the mass o	of a train that read	ches this speed if its to	tal
5.	A pola	r bear with a mass of 500 kg has 60,5	00 J of kinetic en	ergy. How fast is	it moving?	
6.	A pige	on flies with a velocity of 5.1 m/s. If	it has 46.8 J of k	inetic energy, wh	nat is its mass?	
		netic energy of a golf ball is measured s its speed?	I to be 143.3 J. If	the golf ball has a	a mass of about 0.047 k	g,
8.		g-pong ball has a mass of about 2.45 g hat is its kinetic energy?	g. Suppose the ba	ll is hit across the	table with a speed of	4.0