KINETIC AND POTENTIAL ENERGY W	ORKSHEET II	Name:_	,		/ 22
Determine whether the objects in the formula to use: <b>KE</b> =		blems have l OR	kinetic or potential <b>PE = mgh</b>	energy. Then choos	e the correct
1. You serve a volleyball with a mass o energy. Calculate it.	of 2.1 kg. The b	oall leaves yo	our hand with a spe	ed of 30 m/s. The b	all has
2. A baby carriage is sitting at the top carriage has energy. C		5 21 m high. <sup>-</sup>	The carriage with th	ie baby has a mass	of 12 kg. The
3. A car is traveling with a velocity of	40 m/s and ha	s a mass of 1	120 kg. The car has	ener	gy. Calculate it.
4. A cinder block is sitting on a platfor Calculate it.	rm 20 m high. I	t has a mass	of 79 kg. The block	: has	_ energy.
5. There is a bell at the top of a tower Calculate it.	r that is 45 m h	igh. The bell	's mass is 190 kg. Tl	he bell has	energy.
6. A roller coaster is at the top of a 72 energy. Calculate it.	2 m hill and has	s a mass of 9	66 kg. The coaster (	at this moment) ha	S
7. What is the kinetic energy of a 3-ki	logram ball tha	at is rolling a	t 2 meters per seco	nd?	

8. The potential energy of an apple is 6.00 joules. The apple is 3.00-meters high. What is the mass of the apple?

9. What is the potential energy of a 3 kilogram-ball that is on the ground?

10. What is the kinetic energy of a 2,000-kilogram boat moving at 5 m/sec?

11. What is the mass of an object that creates 33,750 joules of energy by traveling at 30 m/sec?