	ame Date
	PHYSICS ENERGY AND POWER
1)	Solve the physics problems below! How high up is a 3.00 kg object that has 300. J of energy?
2)	How high would you have to lift a 1000. kg car to give it a potential energy of: (a) 2.0 × 10′ J (b) 2.00 × 10′ J,
3)	Calculate the potential energy of a 5.00 kg object sitting on a 3.00 meter high ledge.
4)	A 4.00 kg rock is rolling 10.0 m/s. Find its kinetic energy.
5)	An 8.0 kg cat is running 4.0 m/s. How much kinetic energy does it have?
6)	Calculate the kinetic energy of a 45 gram golf ball travelling at: (a) 20. m/s (b) 40. m/s (c) 60. m/s.
7)	How fast must a 1000. kg car be moving to have a kinetic energy of: (a) 2.0 x 10 J (b) 2.0 x 10' J,
8)	A 10.0 kg rock is at the top of a 20.0 m. tall hill. How much potential energy does it have
۹)	A 25 N object is 3.0 meters up. How much potential energy does it have?