

## B Physics Interactive Quiz : Energy

Name:

#	2	question	Answer			0 <--score
# 1	200	grams is the mass of a bullet shot from a gun with a barrel 40 cm long, with $V_f$ of 400 m/s. Find the force on the bullet		40000	100	0
# 2	200	Find the final KE for the bullet		16000	100	0
# 3	200	Find the ultimate altitude of the bullet if shot upwards		8163.3	100	0
# 4	200	find the speed of the bullet after being shot through a 4 cm door where the $F_f$ was -2000 N		398.99	100	0
# 5	160	is the vertical height of a $40^\circ$ slope 60 kg Kenny skis on his snowboard. If the $\mu$ for Kenny is 0.1, find his PE at the top of the hill		94080	100	0
# 6	160	Find his KE at the bottom of the hill		60405	100	0
# 7	160	find his velocity at the bottom of the hill		44.872	100	0
# 8	10	N/m is the k for a spring that is compressed 30 cm to shoot a ball of mass 180 grams. Find the velocity of the ball		2.2361	100	0
# 9	8	meters is the height of a hill Ben runs up in 7.5 seconds. Find his horsepower if his mass is 75 kg		1.0509	100	0
# 10	36	Newtons is the frictional force overcome at a constant velocity of 4 m/s for someone pushing their car along a road. Find the power dissipated as heat.		144	100	0

**Extra Credit:**