

A Physics Interactive Quiz : Simple Harmonic motion

Name:

#	16	question	Answer	0 <--score
# 1	64	kg is the mass of a weight added to a spring that then stretches 20 cm. Find the value for k for this spring		0
# 2	64	If the same mass is then pulled down an extra 20 cm, find the upwards force from the spring in newtons		0
# 3	64	you now let go of the mass, how many seconds will it take until it returns to the same place?		0
# 4	64	using the information above, what is the energy stored when it is stretched the amount in the question above?		0
# 5	64	what will be the maximum velocity of the mass?		0
# 6	80	kg is the mass of a pendulum of length 3 meters. If it is raised 30 cm, what is the max PE of the mass?		0
# 7	80	how fast will the mass be traveling at the bottom?		0
# 8	80	How many seconds will it take to make a complete period?		0
# 9	80	If the same experiment were done on the moon where g is 1.8 m/ss, what will the period be?		0
# 10	80	what is the period of a pendulum with zero length?		0

Extra Credit: Explain how a pendulum could be used to locate underground oil, uranium or moving lava. Include diagrams with your explanation.