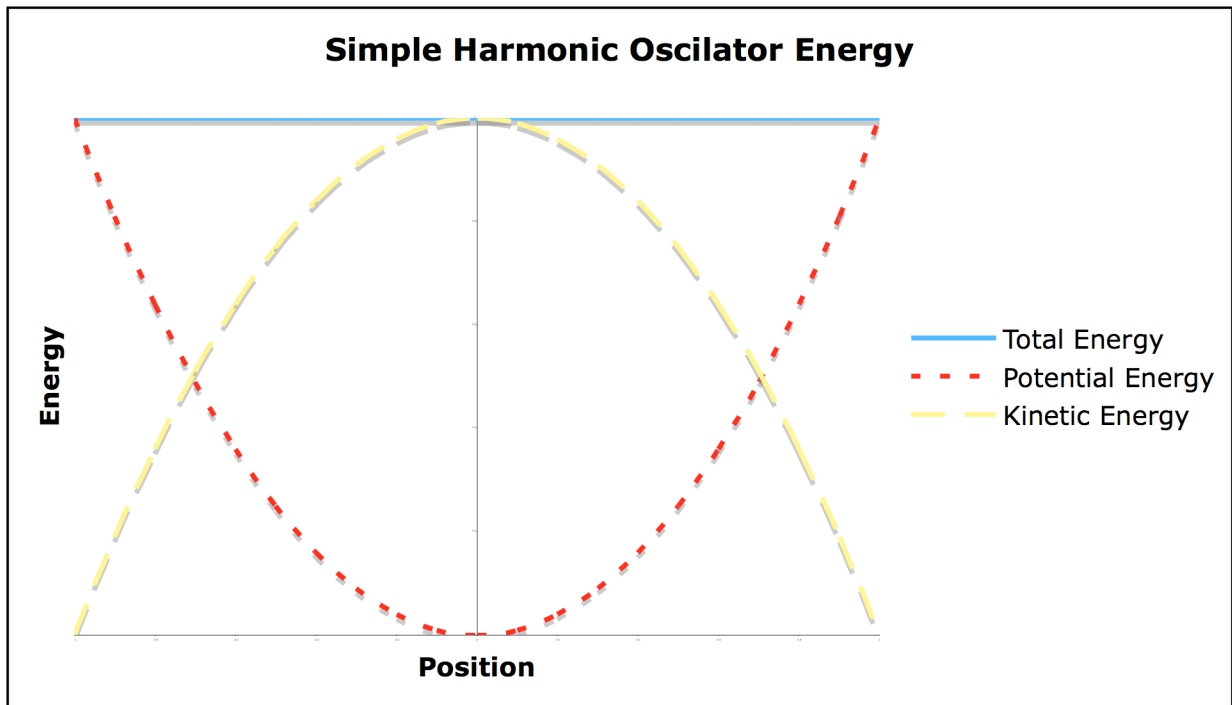


SHM Review -- KEY

1. $T = 0.2 \text{ s}$, $f = 120 \text{ rpm}$, $v = \Delta s/t = 4 \text{ m/s}$
2.

	<u>maximum</u>	<u>minimum</u>
a. Speed	middle	end
b. Net Force	end	middle
c. Potential Energy	end	middle
d. Kinetic Energy	middle	end
e. Acceleration	end	middle
3. a. 20 N, b. 4 J, c. 10 m/s^2 , d. 0, e. 2 m/s
4. a. 120 N, b. 24 m/s^2 , c. 8.49 m/s, d. 180 J, e. 3 m, f. 12 m, g. period would triple, h. period halved, i. 1.25 m
5. 7.07 m, 2 kg
6. .



7. Force is proportional to displacement.
8. Period is independent of amplitude.
9. The volume at which a note is played does not effect the pitch of a note.