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c) Make a statement about the gravitational potential energy and the kinetic energy of the ball as it falls.

## GPE is transformed into KE

d) Make a statement about the total energy of the ball as it falls.

Total energy is conserved AND total mechanical energy is conserved

e) Discuss the energy of the ball if air resistance is not neglected.

Total energy of the ball is NOT conserved. Total energy is conserved for ball-air system. Total mechanical energy is NOT conserved. Some mechanical energy transformed to internal energy – some transferred to air.







b) A student braves the "bowling ball of death" by releasing it at their nose level. Estimate the speed of the ball at its lowest level.















