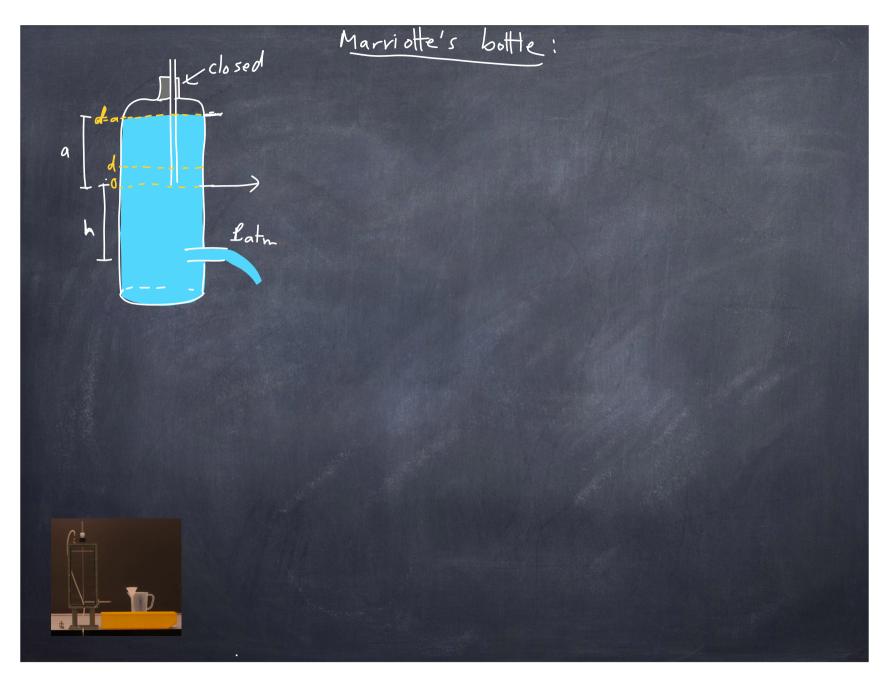
PHY117 HS2024

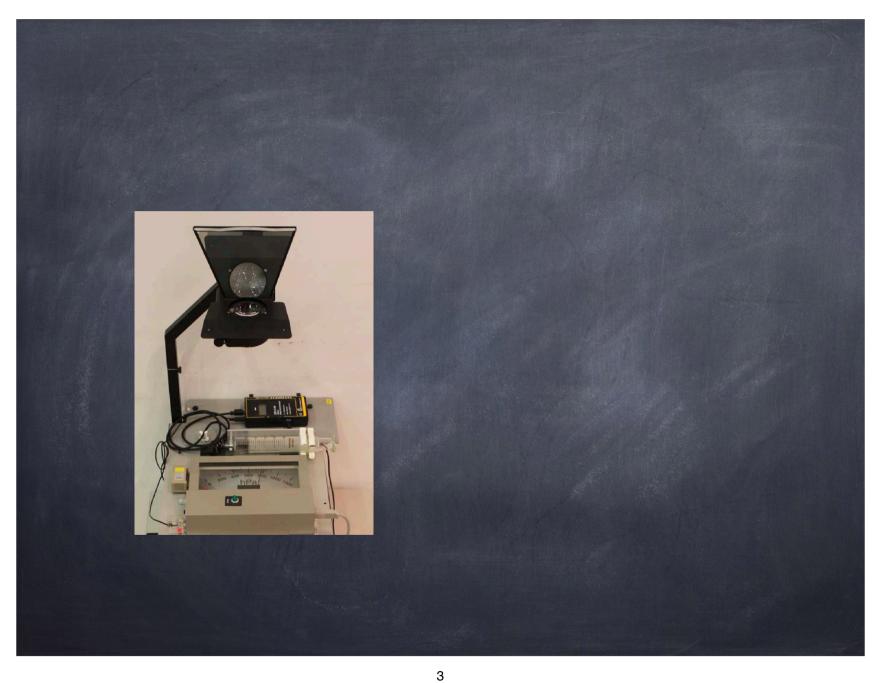
Week 6, Lecture 1 Oct. 22nd, 2024 Prof. Ben Kilminster

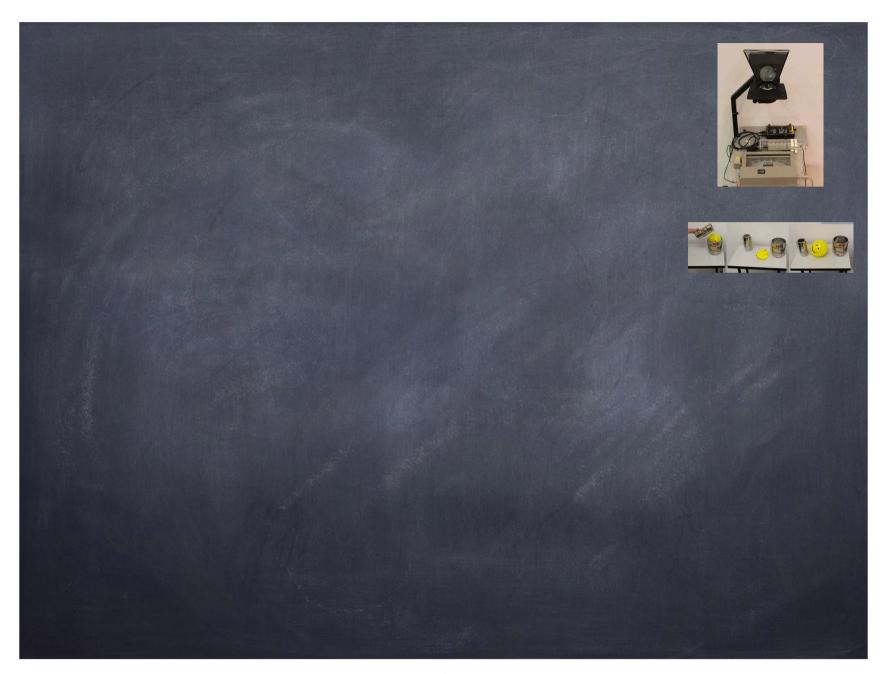
Thermodynamics - study of temperature, heat, and the exchange of energy.

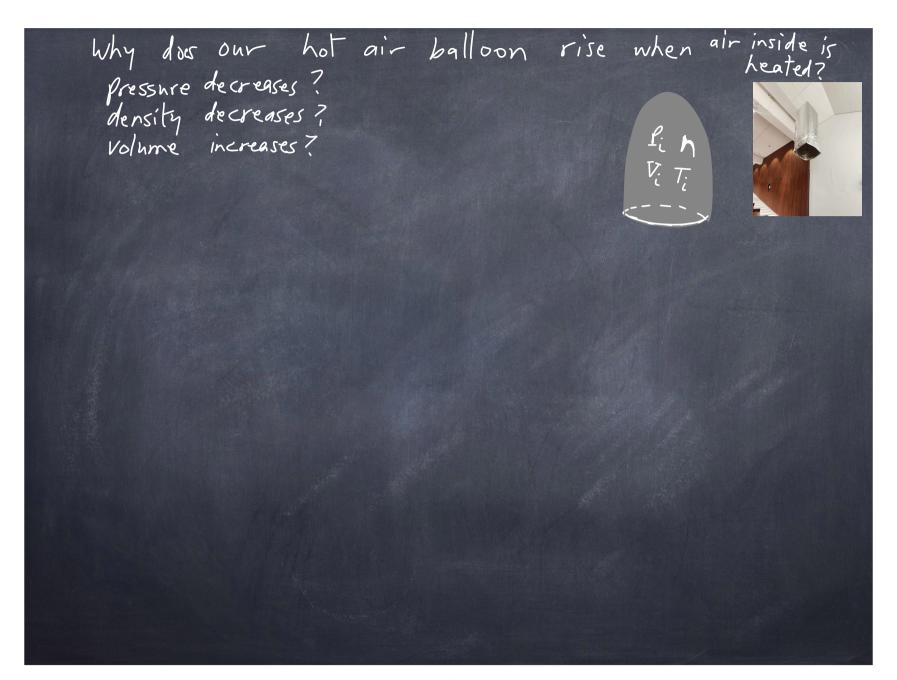
(mechanical)
work

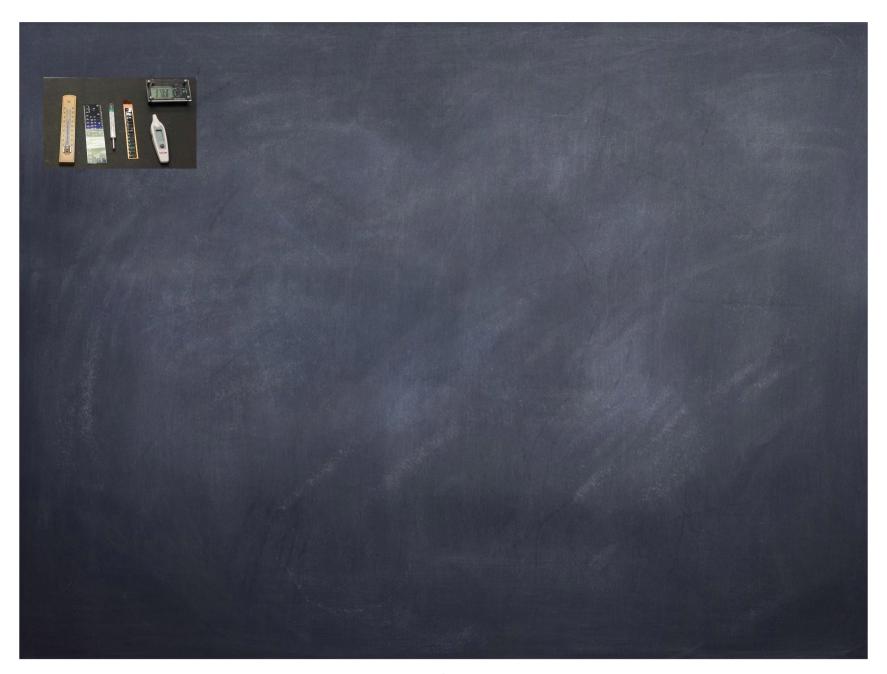
Macroscopic sale: measurable properties: Volume, pressure, temperature, Force/area

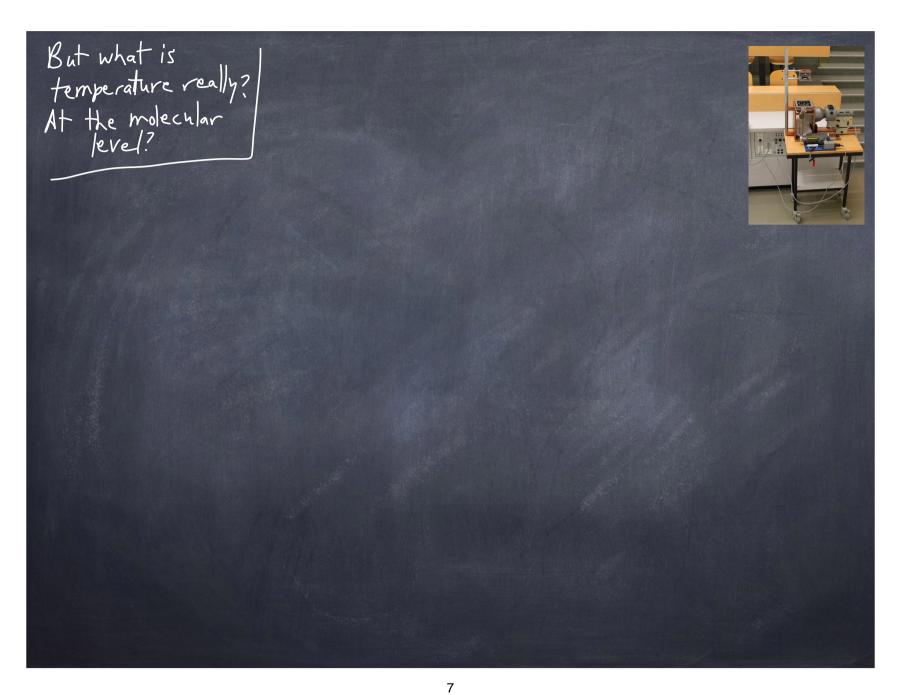


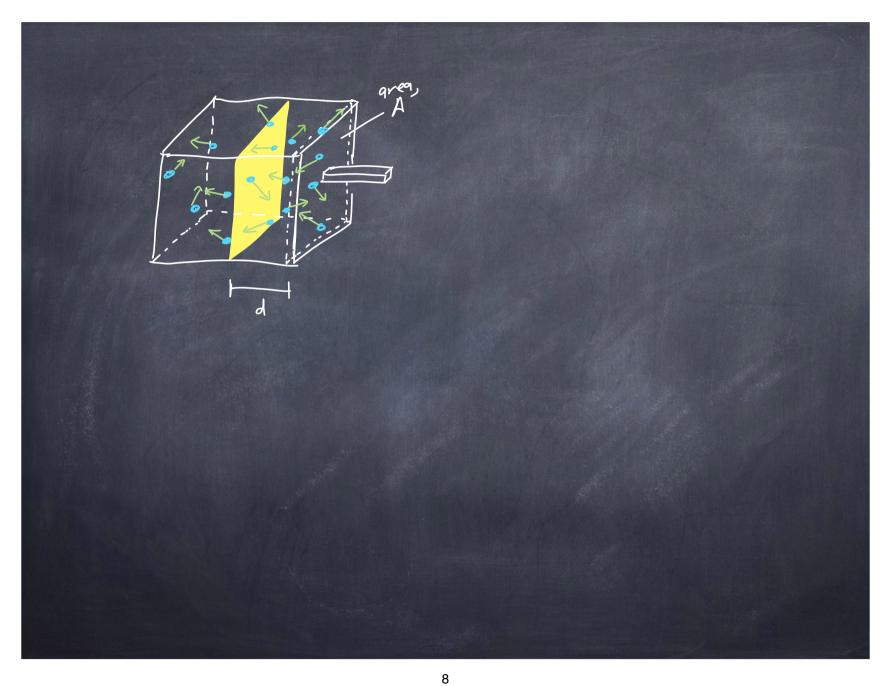


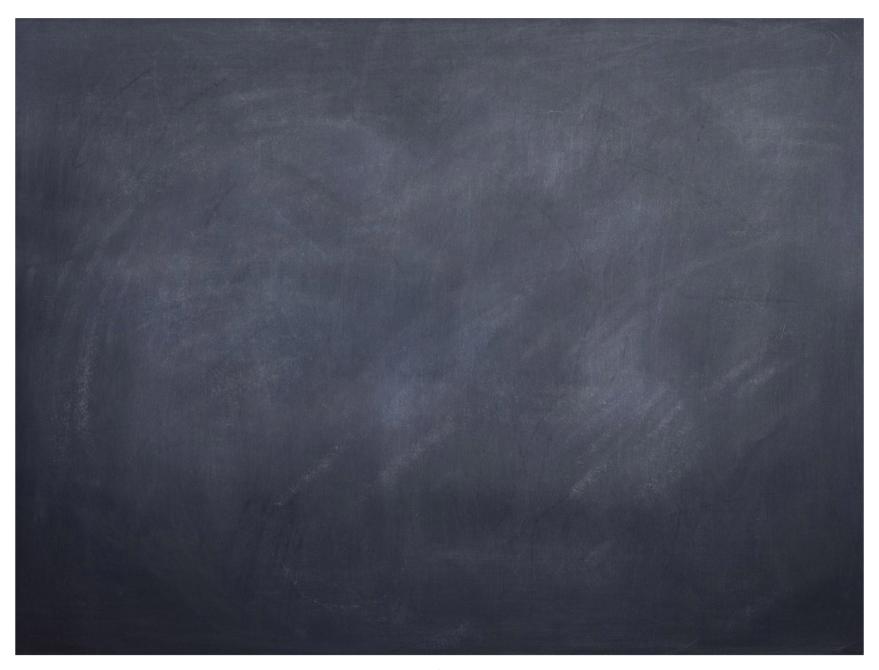


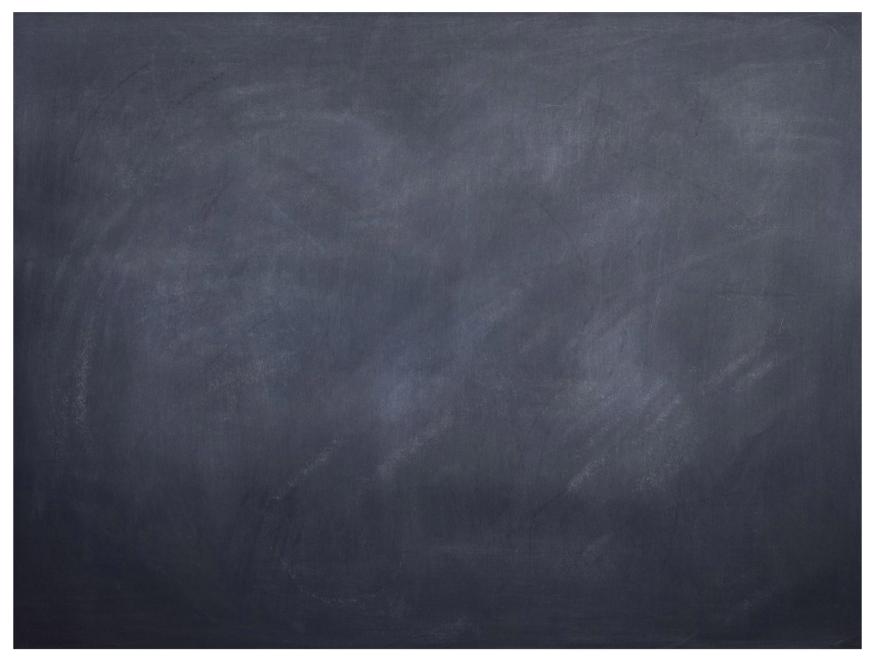


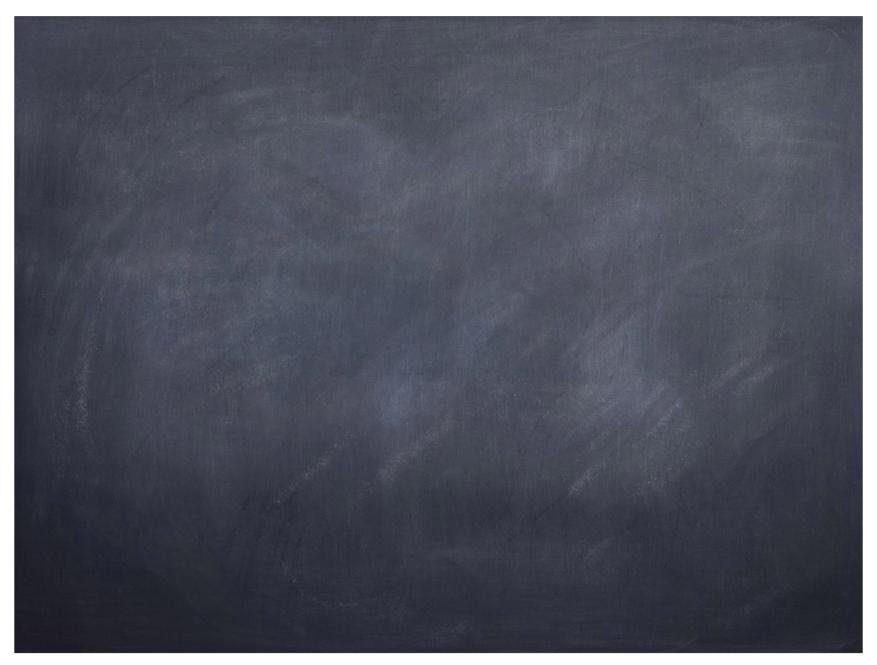




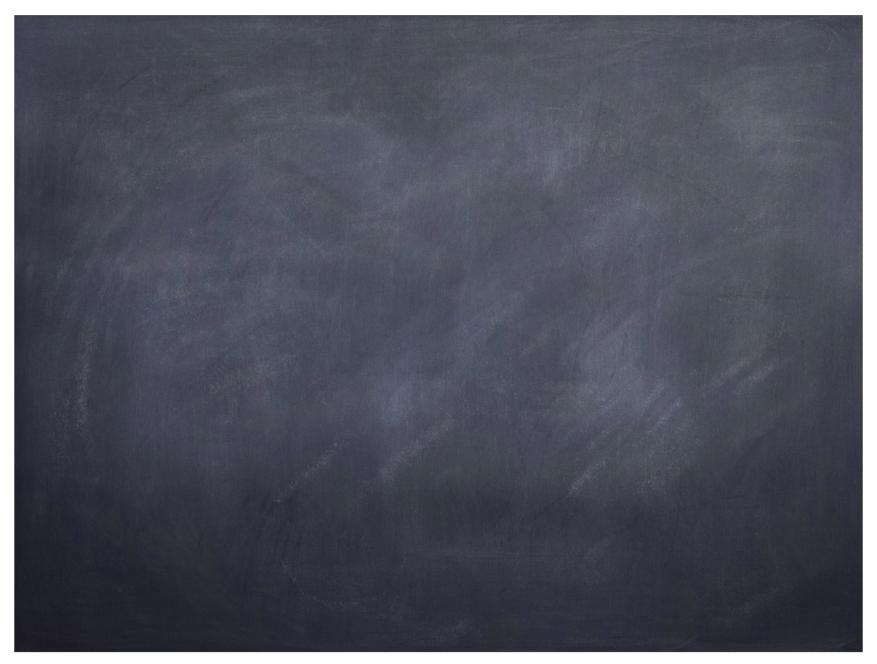


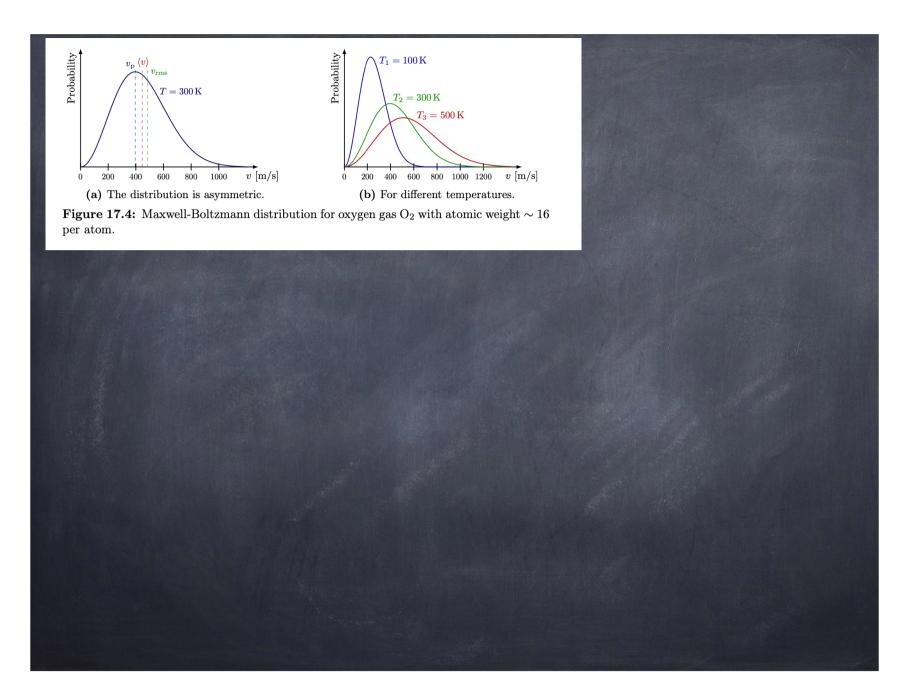




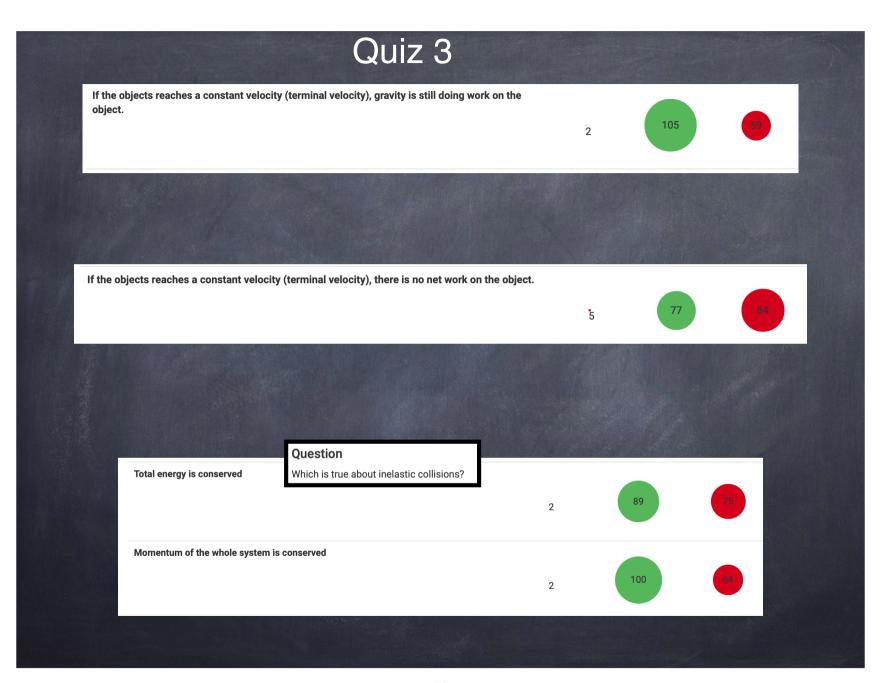








Quiz 3 The area under the force vs. time curve represents work. The area under the velocity vs. time curve represents acceleration. 3 The dot product of a constant force and the 1-D distance the force pushes an object is the work.



Quiz 4 When torque is zero, angular momentum is zero. Question Which direction does a spinning object precess. In the direction of the angular momentum of the spinning object. (a) The handle allows the (d) Torque au perpendicular disk to spin around its axis to angular momentum L, will and around the pivot. only change its direction.

