

Physics Final

30 Questions

T/F - 10

MC - 12

Short Ans (8)

2-5 points per problem = 100pts

#1-10 (T/F)

1. Mass vs Weight

Mass:

Weight: $m \cdot g$ (mass * gravity)

Mass is a fundamental measurement of how much matter an object contains. Weight is a measurement of the gravitational force on an object.

2. Fluid (Liquid + Gas) vs Solids

Fluid: a liquid, gas, or other material that flows or continuously deforms under a shear (tangential) force.

3. Elastic vs. inelastic collision > know their characteristics related to momentum & energy

Perfectly Elastic collision: the KE before the collision is equal to the KE after the collision → no energy lost after collision

Inelastic collision: the KE before the collision is not equal to the KE after the collision.
KE conserved, momentum conserved.
KE not conserved, momentum conserved.

Perfectly inelastic collision: the two bodies stick together and move with the same velocity after the collision.

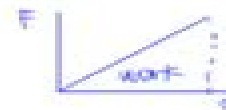
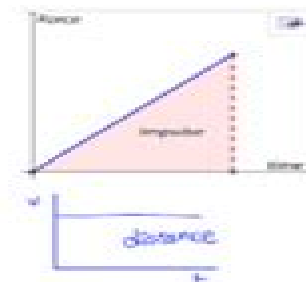
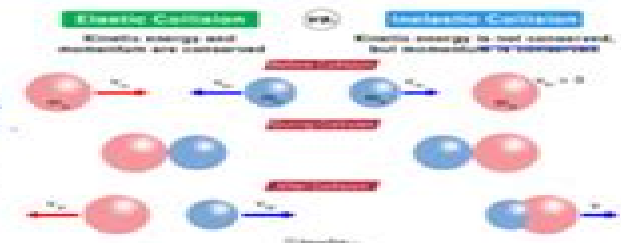
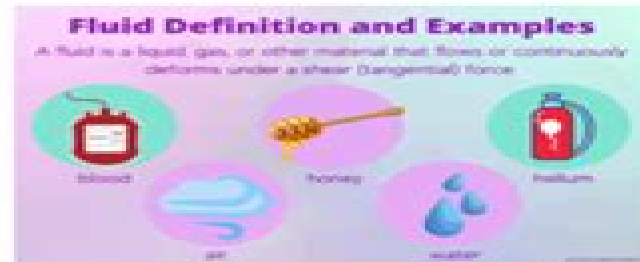
In elastic & inelastic ⇒ momentum is conserved (total momentum before collision = after the collision)

Elastic ⇒ $m_1 v_{1i} + m_2 v_{2i} = m_1 v_{1f} + m_2 v_{2f}$
Inelastic ⇒ $m_1 v_{1i} + m_2 v_{2i} = (m_1 + m_2) v_f$

4. Impulse ($F \cdot t$) vs. momentum, work ($F \cdot d$) vs. energy, + graphs.

- When you see "multiplication" in physics between two variables, also think about integral. If it is F and t that are multiplied together, then the product can also be understood as the area underneath the F - t curve. In the same way, think of v - t curve and what that area under the curve gave us (Q1 stuff...)

work, energy ⇒ J



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Huangqi Zhang



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