AP Physics 1 Review Questions

Integrating Content, Inquiry and Reasoning

1. Based on the data collected in the guided-inquiry portion of the investigation, make the case that momentum and kinetic energy were conserved for all collisions.

2. What factors cause discrepancies between a system's calculated pre-collision momentum and post-collision momentum?

3. What experimental steps would need to be taken to determine whether kinetic energy is conserved when using the air track?

4. Though total kinetic energy is not conserved in an inelastic collision, total energy must be conserved. In an inelastic collision such as the one that occurs when one football player tackles another player to the ground, describe how energy is conserved. That is, to what other forms of energy is the football players' energy converted?

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