

Chapter 6 Momentum Systems

7 When the compressed spring is released, Blocks A and B will slide apart. There are 3 systems to consider, indicated by the closed dashed lines below—A, B, and A + B. Ignore the vertical forces of gravity and the support force of the table.

- a. Does an external force act on System A? ☒ Y ☒ N Will the momentum of System A change? ☒ Y ☒ N
- b. Does an external force act on System B? ☒ Y ☒ N Will the momentum of System B change? ☒ Y ☒ N
- c. Does an external force act on System A + B? ☒ Y ☒ N Will the momentum of System A + B change? ☒ Y ☒ N



8 Billiard ball A collides with billiard ball B at rest. Isolate each system with a closed dashed line. Draw only the external force vectors that act on each system.



System A



System B



System A + B

- a. Upon collision, the momentum of System A ☒ increases ☒ decreases ☒ remains unchanged
- b. Upon collision, the momentum of System B ☒ increases ☒ decreases ☒ remains unchanged
- c. Upon collision, the momentum of System A + B ☒ increases ☒ decreases ☒ remains unchanged

Note that external forces on System A and System B are internal to System A+B, so they cancel!



9 a. A girl jumps upward. In the left sketch, draw a closed dashed line to indicate the system of the girl.

Is there an external force acting on her?

Does her momentum change?

Is the girl's momentum conserved?

- b. In the right sketch, draw a closed dashed line to indicate the system (girl + Earth). Is there an external force acting on the system due to the interaction between the girl and Earth?



☒ Y ☒ N
☒ Y ☒ N
☒ Y ☒ N

10 A block strikes a blob of jelly. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



11 A truck crashes into a wall. Isolate 3 systems with a closed dashed line and show the external force on each. In which system is momentum conserved?



Conceptual Physics Momentum Practice Page

Raymond A. Serway



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Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics *College Physics* Michael Tammaro, 2018-12-18 Tammaro's *College Physics* First Edition will convert more students from passive to active learners through a unique presentation of material built from the ground up in a digital environment When students become active learners they study smarter by spending time on content that will help them improve their understanding of key concepts NOT skipping straight to the problems to find out what they don't know *College Physics* First Edition utilizes an assignable module structure with frequent assessment check points at various difficulty levels to ensure maximum points of student engagement and retention

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