

Physics 2211: *Matter and Interactions*

Chapter 10 Standards

1. I know when the momentum of a system is conserved in a collision.
2. I know when the kinetic energy and internal energy of a system is conserved in a collision.
3. I can use the momentum principle to solve 1D collision problems.
4. I can use the energy principle to solve 1D collision problems.
5. I can use the center of mass frame to solve 1D collision problems.
6. I can use the momentum principle to solve 2D and 3D collision problems.
7. I can use the energy principle to solve 2D and 3D collision problems.
8. I can use the center of mass frame to solve 2D and 3D collision problems.
9. I can describe the expected and actual results of the Rutherford experiment.
10. I can create a VPython simulation of a collision experiment.