AP Physics C: Mechanics
Lars Londot, Richardson HS, Spring 2025

1 Kinematics

1.1 Scalars and Vectors

1.2 Displacement, Velocity, and Acceleration

1.3 Representing Motion

1.4 Reference Frames and Relative Motion

1.5 Motion in Two or Three Dimensions

2 Force and Translational Dynamics

3 Work, Energy and Power

3.1 Translational Kinetic Energy

3.2 Work

3.3 Potential Energy

3.4 Conservation of Energy

3.5 Power

4 Linear Momentum

4.1 Linear Momentum

4.2 Change in Momentum and Impulse

4.3 Conservation of Linear Momentum

4.4 Elastic and Inelastic Collisions

5 Torque and Rotational Dynamics

6 Energy and Momentum of Rotating Systems

7 Oscillations