

# AP Physics C: Mechanics Notes

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# **1 Kinematics**

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## **1.3 Representing Motion**

## **1.4 Reference Frames and Relative Motion**

## **1.5 Motion in Two or Three Dimensions**

## **2 Force and Translational Dynamics**

- 2.1 Systems and Center of Mass**
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- 2.3 Newton's Third Law**
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## **5.6 Newton's Second Law in Rotational Form**

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**7.1 Defining Simple Harmonic Motion (SHM)**

**7.2 Frequency and Period of SHM**

**7.3 Representing and Analyzing SHM**

**7.4 Energy of Simple Harmonic Oscillators**

**7.5 Simple and Physical Pendulums**