

CHAPTER OVERVIEW

11: Kinematics in Two or Three Dimensions

Armed with a knowledge of vector algebra, we are now in a position to examine kinematics in two and three dimensions. The approach will be very similar to kinematics in one dimension, except that we replace the position x , velocity v , and acceleration a with their vector counterparts: the position vector \mathbf{r} , velocity vector \mathbf{v} , and acceleration vector \mathbf{a} .

[11.1: Position, Velocity, Acceleration](#)

[11.2: Constant Acceleration](#)

[11.3: Vertical vs. Horizontal Motion](#)

[11.4: Summary](#)

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