

6.4 : Wrap Up

In this Chapter we introduced a mathematical concept of vectors which is needed to understand and apply Newton's Laws of Motion. We also introduced Newton's three laws and some examples of how they are applied to real physical situations. Specifically, we saw how to calculate the net forces acting on a system to figure out whether the velocity of the system will remain unchanged when the net force is zero or will change in the case when the total force is non-zero.

In the remaining two chapter we will see multiple physical situations and analyze them by applying Newton's Laws of Motion. In the next chapter we will introduce conservation of momentum, which is a direct consequence of Newton's Laws. We will apply this model to both linear and angular motion. In the last chapter we will study in more detail how Newton's Second Law can predict motion of a object experiencing acceleration due to a net force. As you continue to read this textbook, refer back to this chapter as you begin using momentum conservation and Newton's second law in greater detail.

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