

CHAPTER OVERVIEW

9: Special Relativity

Chapter 9 focuses on Special Relativity, including the effects of time dilation and length contraction, the geometry of spacetime, and the $E = mc^2$ formula. On the foundation that the speed of light and the laws of physics are the same for all observers, you will learn that moving clocks run slower and moving rulers are shorter. In addition, you will become familiar with spacetime diagrams and the relationship between mass and energy. Several practical and fanciful applications will be explored.

[9.0: Special Relativity Introduction](#)

[9.1: The Principles of Special Relativity](#)

[9.2: Time Dilation](#)

[9.3: Length Contraction](#)

[9.4: The Geometry of Special Relativity - Spacetime](#)

[9.5: Applications of Spacetime](#)

[9.6: Mass and Energy](#)

[9.7: Faster Than Light?](#)

[9.8: Wrapping It Up 9 - A Trip to Alpha Centauri](#)

[9.9: Mission Report 9 - A Trip to Alpha Centauri](#)

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