

## Science

- The child learned about the concept of buoyancy, as hot air balloons rise due to the difference in density between hot air and cool air.
- They also learned about the properties of air, understanding that it takes up space and has mass.
- The child learned about heat transfer, as the burner heats the air inside the balloon causing it to expand and rise.
- They gained knowledge about the different parts of a hot air balloon, such as the envelope, burner, and basket.

For continued development, encourage the child to explore other methods of air transportation, such as airplanes or helicopters. They can learn about aerodynamics and how these vehicles stay in the air. Additionally, they can experiment with different materials and shapes to build their own mini hot air balloons to understand the effects on buoyancy and flight.

## Book Recommendations

- [Balloons over Broadway: The True Story of the Puppeteer of Macy's Parade](#) by Melissa Sweet: This book tells the story of Tony Sarg, the puppeteer who first invented the giant helium balloons for the Macy's Thanksgiving Day Parade.
- [The Hot Air Balloon Mystery](#) by Gertrude Chandler Warner: A thrilling mystery story where the Boxcar Children go on an exciting hot air balloon ride and uncover a secret.
- [The Hot Air Balloon Book](#) by Clive Catterall: This book provides a comprehensive guide to hot air balloons, explaining the science behind their flight and detailing the history of hot air ballooning.

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