

Science

- Understanding of simple machines and how they are used to create motion in the wooden car.
- Application of concepts related to potential and kinetic energy during the car build and race.
- Exploration of friction and its effects on the car's speed and performance.
- Engagement with principles of force and motion through testing and modifying the car's design.

Encourage students to conduct further experiments with different materials for the car's construction, such as cardboard or plastic, to explore how materials affect both the speed and stability of the car. Additionally, they can study aerodynamics by designing and testing modifications to the car's shape to reduce drag and improve speed.

Book Recommendations

- [How to Build Racing Car](#) by Ian Graham: A comprehensive guide for young car enthusiasts, featuring step-by-step instructions and engaging explanations of car design and mechanics.
- [The Science of Speed: The Hi-Tech World of Formula 1](#) by Kirsty Holmes: An exciting look into the science behind high-speed racing, including the engineering of cars and the physics of racing.
- [Strike Three! A Chip Hilton Sports Story](#) by Clair Bee: This classic sports novel explores teamwork and determination through the story of a young boy's journey in attempting to build and race a wooden car.

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