

# Mechanical Engineering: Balloon Car

Complete the five steps to earn your Mechanical Engineering: Balloon Car Badge.

1. **Learn about potential and kinetic energy:** Join Jessica to learn about the difference between potential and kinetic energy and how it may affect your balloon car's mission!
2. **Design and build a balloon car:** Follow this [tutorial](#) to learn how to build your very own balloon car.
3. **Test your balloon powered car:** Head outside and test out your balloon car. Take note of how far it travels, how fast it goes, and the path it follows. You could even have a friend or family member make a balloon car too and compare their successes/challenges.
4. **Analyze and share results:** Test out your balloon car three times and share your results with your family and friends.
5. **Brainstorm ways to improve your design:** With help from your test runs and feedback from family and friends, see if you can improve your design and make it even better.