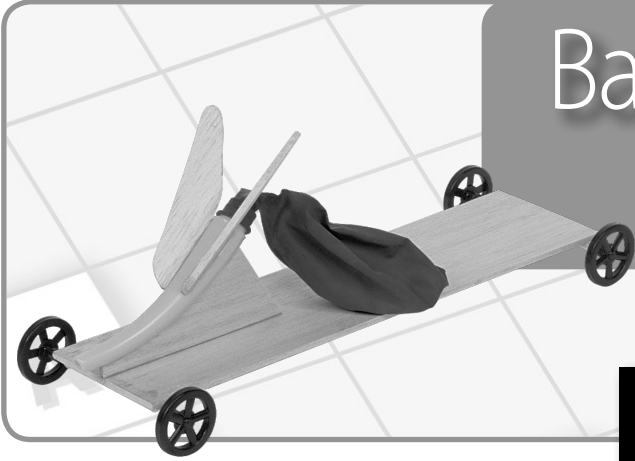


Balloon Buggy 10-Pack Teacher Guide



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Materials Included

- 10 sheets of balsa wood 1/8" x 3" x 22"
- 10 nozzles
- 20 axles 3-7/8" long
- 40 wheels
- 20 straws
- 10 balloons

Items Required (not included)

- Ruler
- Pencil
- Glue
- Hobby knife

Activity Description and Options

The kit provides the basic materials needed to construct 10 balloon-powered buggies like the one pictured on the back of this page. You may allow students to use other materials to enhance the basic design.

Setup and Implementation

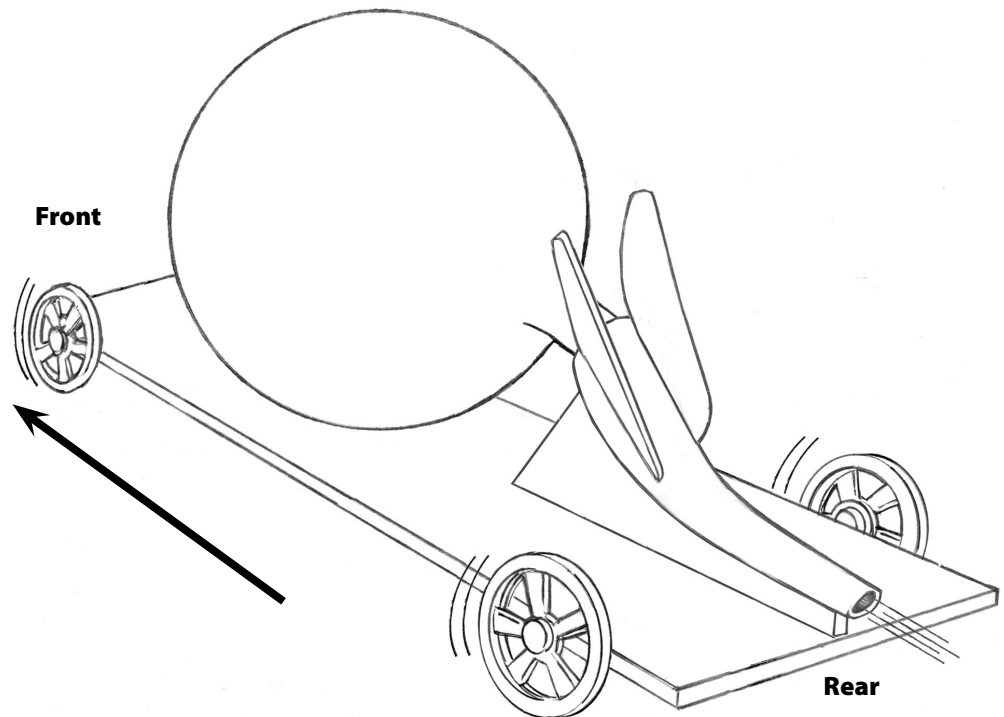
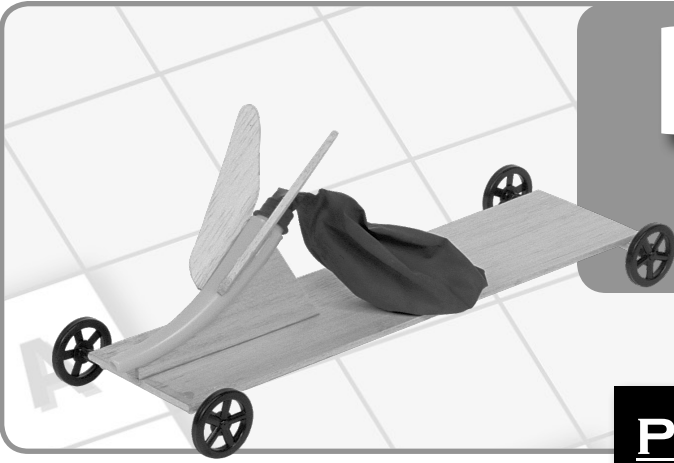
1. Make 10 copies of the Student Guide on the back of this page.
2. Give each student:
 - 1 sheet of balsa wood
 - 1 nozzle
 - 2 axles
 - 4 wheels
 - 2 straws
 - 1 balloon
 - Student Guide
 - Tools and materials listed above (may be shared by the students)
 - Other materials to enhance the basic design (optional)

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Balloon Buggy

Student Guide



Your Challenge:

Use the materials and tools given to you by your teacher to construct a balloon-powered vehicle (similar to the one at right) that will travel the greatest distance.

Before You Start, make sure you have the following tools and materials:

- Sheet of balsa wood
- Nozzle
- Balloon
- 2 axles
- 4 wheels
- 2 straws
- Ruler
- Pencil
- Glue
- Hobby knife

Hints:

- Use the straws as axle bushings to reduce friction when the axles are turning. The straws can be glued underneath the chassis (balsa wood sheet).
- Make sure the straw bushings and wheels are parallel to each other and perpendicular to the length of the chassis (balsa wood sheet), or your buggy will not travel in a straight line.