

## Balloon Car

Goal: Get students to think creatively and learn the importance of engineering design

### Materials -

- Paper
- Colored Pencils
- Hot glue gun
- Hot glue sticks
- Balloons
- Rubber Bands
- Cardboard
- Plastic bottle caps
- Straws
- Wooden Skewers
- Painter's tape
- Scissors

### Procedure -

1. Hand out all of the materials, except for the hot glue gun and hot glue sticks.
2. Have students draw out their designs first, using the paper and colored pencils.
3. After getting approval from an activity facilitator, students may start constructing their balloon car.
4. If students want to use hot glue, they can bring their car over to the activity facilitators to apply the hot glue for them.
5. When finished, test the car and make adjustments as necessary. See if you can make the car faster, etc.
6. Once the cars work, have the cars race down a straight track. The fastest car is the winner!

☆ Explanation: Students should plan their design beforehand to ensure that they don't have to restart. For example, removing hot glue after it has dried is extremely difficult and can mess up the whole project. Also, adjustments may need to be made. The car may not move so students will have to identify the problem and fix it.

Image(s) -

