

# Considering 3D Models toward Printing

## Functionality Considerations

- Axle, body, tires printed separately
- Optimize airflow and angle of nozzle
- Reduce weight
- Post-process tires for traction
- Streamline axle design

## Aesthetic Considerations

- Smooth out edges of car
- Add text to car
- Post-process painting/stickers/stencils

## 3D Printing Considerations

- Print pieces out individually
- Supports may mess with axle tubes - print on side to stop supports
- Chassis won't print properly in the air, wheels and axles won't print properly in the car
  - Make them separate assemblies
  - Make balloon connector flush, put chassis on side

## Revised Balloon Car Design

