

Air Lift*
Balloon Car

Lift a book with a plastic bag and a straw.

- Number of bags
- Size of bags

- How high did you lift the book?
- · How could you lift a heavier object?
- Find more air activities:
- Balancing Balls on Air
- Card Lift



Build a balloon-powered car.

- Size of the balloon
- Amount of air inside the balloon
- Size of the exhaust hole
- Weight of the car

- How far did the car travel? Why?
- How fast did the car go? Why?
- How can you make the car go faster or farther?
- Test out more balloonpowered vehicles:
- Balloon Car Freeload ZOOM Vehicle

Can Car

Build a coffee can car that's powered by a rubber band.

- Size of the can
- Size of the rubber band (length and thickness)
- Number of turns with the pencil
- How far did the car travel?
- What made the car move?
- How can you make the car go faster or farther?
- Keep experimenting with potential energy and kinetic energy:
- Pet Can
- Spool Racer





Make a catapult that flings cotton balls.

- Materials you use
- How you put the materials together
- Weight of the cotton ball
- How does your catapult work?
- How far did the cotton ball travel?
- How can you make it travel farther or faster?
- Investigate air resistance with:
- Glider
- Hoop Glider

Electric Gelatin*



Make gelatin stick together.

- Material you rub the balloon on
- Replace gelatin with salt or unflavored gelatin
- What happened when you held the charged balloon near the gelatin?
- Why does the gelatin stick together?

Keep experimenting with static electricity:

• Snap, Crackle, Jump













^{*} indicates Spanish version available