Air

Can you lift something with a resealable bag and a straw?
Hypothesis:

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Procedures:

- **Seal the Ziplock bag.**
- **Put a hole in the top of the Ziplock bag near the seal.**
- **Put the straw in the hole.**
- **Place the bag under an object, and blow it up like a balloon.**
- **Use the straw to blow into the sealed bag.**
- **Make sure there are other people blowing into bags around the object.**
- **Record if the Ziplock bag was able to lift the object.**

Collecting Data:

Object	Results
Book	

Why do you think the Ziplock bag was able to lift the book?

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When you blow into the resealable bag, there is not a lot of space for the air to spread out, and the air is compressed. The air is pushed together very tightly. The compressed air pushes on the bag, and the bag pushes on the object, causing it to lift. It's like the tires of a bicycle. When bicycle tires are flat, it is hard to ride the bicycle, and it's difficult for the tires to hold up your weight. When bicycle tires are pumped up with air, it's easier to hold your weight and to ride.

Can you think of other things that need air to move or bounce?