Air is pushy stuff!
But can it push up heavy books?

Get Started!

1. Sweep an open zipper bag through the air. Zip it closed. What is in the bag?

2. Press on the bag. Can you press the bag all the way down? What happens?

Challenge #1
Pushback
Can you beat air's push?

Predict: Can your air bag hold up heavy books? __ Yes __ No

Guess: How many heavy books? ______

Try it! Pile books on your bag. How many does your air bag hold up? ______

What is holding up the books?

Challenge #2
Air Lift
Can you lift three heavy books with your breath alone?

1. Insert a straw halfway into an empty zipper bag. Seal the bag around the straw.

2. Blow through the straw into the bag. Keep blowing as you slip the straw out. Seal the bag FAST as you remove the straw.

3. Did the books lift off the table? If not, try again.

Wrap-Up:

What pushed the books up? ______

_______

The books are pressing down on the air bag. Is the air pressing up on the books? Write what you think on the back.

Take-Home Challenge:
Will a zipper bag of air hold YOU up? Trap air in a new gallon zipper bag, then seal it shut. Sit on the air bag. What happens? Challenge an adult to sit on the bag!