

JR-ENGINEERS

BUILD A LUNG

Build this lung model with just two balloons and a bottle!

INSTRUCTIONS

STEP 1: Stretch one balloon over the top of the bottle.

STEP 2: Now cut the bottle about 1/2" below where the first balloon is hanging.

STEP 3: Tie a knot of the top of the second balloon and then cut off the other end with scissors.

STEP 4: Stretch the open end of the second balloon across the bottom of the bottle.

STEP 5: First, pull the knot and see what happens to the balloon inside the bottle. Then push the knot inside the bottle and see what happens to the balloon. Repeat, as if it's a breathing lung.

SUPPLIES

2 Balloons
Sports drink
bottle
Scissors

THE SCIENCE OF LUNGS

When you pulled the knot of the balloon, the area inside the bottle increased and your balloon filled with air. Just like the chest cavity increases and air flows into our lungs when we inhale.

When you pushed the knot inside the bottle, the area decreased, and the balloon deflated. Just like the chest cavity decreases, and air is pushed out of the lungs when we exhale.

