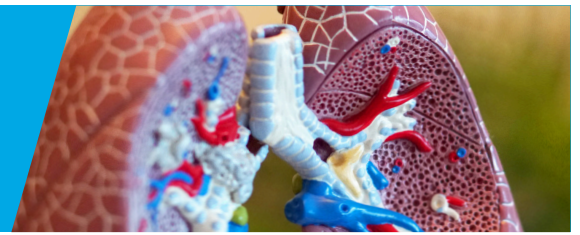


CURIOSITY AT HOME

MAKE A MODEL LUNG



Make a model lung to show how the diaphragm works with the lungs to allow us to breath.

MATERIALS

- 1 clear plastic soda bottle (one or two-liter)
- 2 large rubber balloons
- masking tape
- scissors



PROCEDURE

- Use the scissors to cut off the bottom few inches of the plastic bottle.
- Place one balloon in the mouth of the bottle, so that the opening in on the outside. Then stretch the opening of the balloon around the mouth of the bottle and tape firmly into place.
- Cut off the narrow end of the other balloon. Stretch the remaining large piece of the balloon over the cut end of the bottle and tape firmly in place.
- Grab the stretched balloon at the bottom of the bottle and pull down. The balloon inside the bottle should fill with air.

TRY THIS

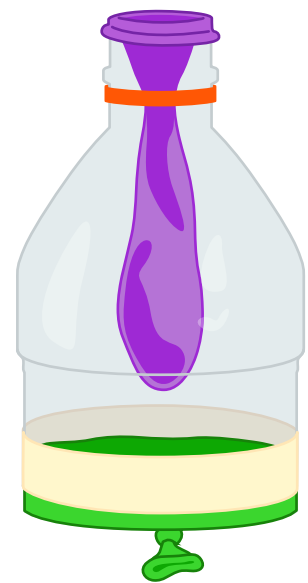
Try pushing the stretched balloon up into the bottle and watch what happens to the balloon inside. Can you make the lung breath faster, or slower? What would a hiccup look like?

WHAT'S GOING ON?

The balloon inside the bottle represents the lungs and the balloon stretched across the bottom represents the diaphragm. The diaphragm is a strong set of muscles below your lungs that pull down, bringing air into your lungs.

1.2.1 Analyze how parts of a system go together and how these parts depend on each other.

1.2.8 Understand the organization and function of human body structures and organs and how these structures and organs interconnect.



Show us how you're being curious! Share your results with us.

