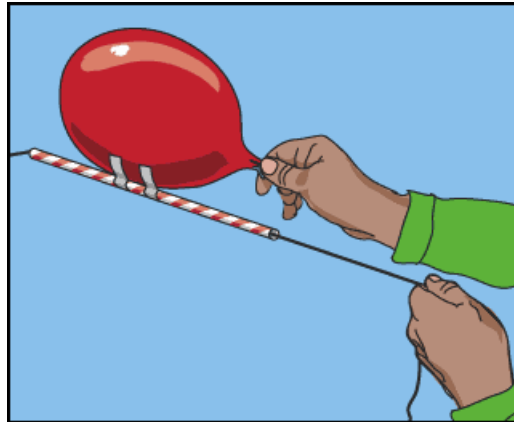


BALLOON ROCKETS

MATERIALS:

- String
- Straw
- Masking tape
- Balloons



PROCEDURE:

1. Find a partner- a sibling or parent/grandparent.
2. Thread one end of the string through the straw.
3. Attach the string to something stable like a pole or the back of a chair.
4. Inflate the balloon and hold the air inside without tying it.
5. Have someone hold the end of the string tight.
6. Attach the balloon to the straw with the masking tape.
7. Release the air from the balloon.
8. Try it again with different amounts of air in your balloon.

WHAT'S GOING ON HERE?

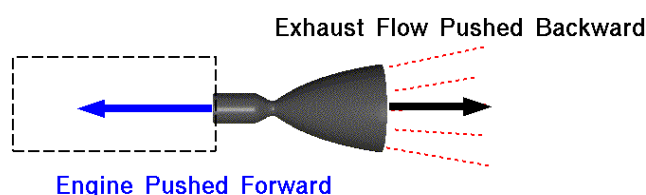
This activity demonstrates how rockets work. They carry containers filled with substances that, when ignited, produce gases. These gases escape through vents in the rear of the rocket. The gases going backward drive the rocket forward. This is an example of Newton's Third Law of Motion: *For every action there is an equal and opposite reaction.*



Newton's Third Law



Rocket Engine Thrust



For every action, there is an equal and opposite re-action.