



# GATEWAY REGION YMCA BALLOON ROCKET (EQUAL AND OPPOSITE REACTION)

The Newton's third law describes how for every action there is an equal and opposite reaction. An example of this is when you push a ball (action) it moves (reaction)! We are going to demonstrate this by making a balloon rocket.

## Supply List

- Straw
- String
- Balloon
- Tape
- Clothespin

## Instructions

1. Thread the string through the straw (straw should be the size of balloon or bigger) and tie it to either two trees outside or two locations in your house. For example, between two chair legs
2. Blow air into the balloon until it's filled and trap the air with the clothespin by folding over the balloon nozzle
3. Tape the balloon to your straw
4. Pull the straw to one side of the string so that the nozzle of the balloon is facing away from the far end
5. Release the clothespin!

The balloon rocket works because we've created an action (releasing the air) and it's equal and opposite reaction is the movement of the rocket

#gwrymcasteam



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