

# My Experiment

Balloon Rocket  
( Air can be compressed)

# Air compression

## What is air compression?

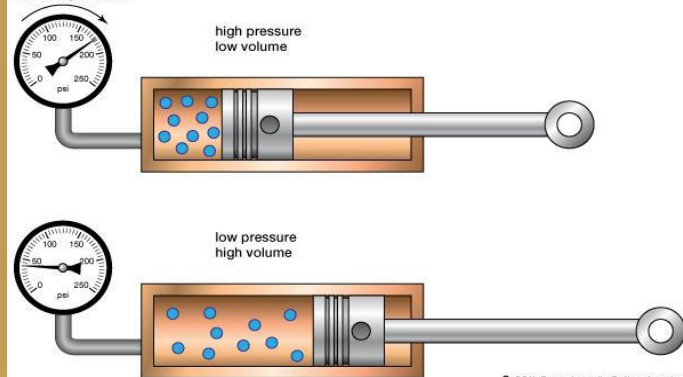
Air compression is air that has been compressed to a pressure higher than atmospheric pressure.

## What happens when air is compressed?

When you **compress** it, the molecules are forced to come closer to each other that makes to decrease the volume **air** occupies.

### Compressed air and decompressed air

increasing pressure



# Balloons

When you blow inside a balloon, the rubber compresses the air inside. That compressed air can be used to push or pull objects.



# Rockets

## Who invented the first rocket?

The first **rocket was** invented around 1100 AD in China. These **rockets** used solid propellants and **were** mainly used as weapons and fireworks.

It **was** not until the 1920s that **rocket** societies emerged, and by the 1930s and 1940s professional **rocket** engineering took off.

## Why were rockets invented?

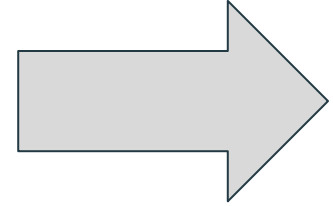
The **inventor** of the first **rocket** is a mystery lost to time, but it's believed that 9th Century Chinese alchemists **invented** gunpowder, which eventually led to bombs and **rocket**-propelled projectiles like cannonballs and arrows as well as the ubiquitous firecrackers.



# My Balloon Rocket

**The balloon rocket uses compressed air inside a balloon to generate thrust.  
That causes the balloon to move.**

Direction of motion



Direction of thrust

