



Engineering Institutes:

Alka Seltzer Rockets

Standards

OH Standards:

PS.1.2.3: The motion of an object can be affected by pushing or pulling. A push or pull is a force that can make an object move faster, slower, or go in a different direction

PS.2.1.1: Motion can increase, change direction or stop
Depending on the force applied.

PS.3.2.2: Shape and compressibility are properties that can distinguish between the states of matter

PA Standards:

3.2.1. B1: Observe and describe how pushes and pulls change the motion of objects.

3.2.3. A4: Use basic reactions to demonstrate observable change in properties of matter.

3.2.3. B2: Explore energy's ability to cause motion or create change.



Materials :

- Film Canister
- Water
- Paper Towels
- Alka-Seltzer Tablets

Procedure :

1. Fill the canister with 1/3 full of water (warm water suggested).
2. Drop in a tablet of Alka-Seltzer and snap the lid on tight
3. Quickly stand the rocket upright (lid on the table) and stand back.

The science behind it :

As an antacid tablet fizzes, carbon dioxide is released in the canister. Pressure from the gas builds up and eventually pops the lid off. The push of your rocket is related to how much pressure built up inside the canister.