



Engineering Institutes:

Confetti Poppers

Standards:

Ohio 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.

PA Standards:

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

3.2.4. B2: Identify types of energy and their ability to be stored and changed from one form to another.



Materials:

- Toilet Paper Tube
- Balloon
- Confetti
- Decorative Supplies (Optional)

Procedure:

1. Tie a knot at the end of the balloon.
2. Open the other side of the balloon and place it over the toilet paper tube and then secure the balloon with tape
3. Decorate the toilet paper tube as desired.
4. Fill the open end of the tube with confetti. Pull down on the balloon end and let it pop.

The science behind it:

Newton's Third Law of Motion says that for every action there is an equal and opposite reaction. That means when you pull down on the balloon, you build up stored (potential) energy or energy at rest. When you release the balloon, the stored energy forces the confetti up and out the tube which is Kinetic Energy (Energy in Motion).