

3, 2, 1....Blast Off!



Make Your Own Balloon Rocket

Materials



Balloon



Straw



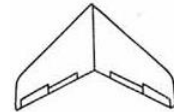
String



Peg



Tape



Wings (optional)

Method

1. Attach one end of the string to a sturdy support such as a chair, table leg, doorknob.
2. Thread the other end of the string through the straw.
3. Attach this end of the string to another support making sure that the string is pulled tight.
4. Blow up the balloon and secure the end with a peg to ensure that the air does not escape.
5. Tape the straw onto the balloon with the balloon positioned below the straw. If using optional wings, tape them above the straw.
6. Once secure, pull the balloon back to the starting line.
7. Unpeg the neck of the balloon and watch your balloon rocket blast off and shoot along the string path.

Switch It Up!

- Try different balloon sizes and shapes
- Attach different shaped wings
- Angle the string pathway

Fun Fact!

Fireworks, developed by the Chinese over 2,000 years ago, are considered the earliest form of rockets.

Let's Talk About the Cool Science

Newton's Third Law of Motion states that every action has an equal and opposite reaction.

➡ The force of the air coming out from the balloon is the **action** and the movement of the balloon is the **reaction**.

➡ The rocket is pushed forward by opposing force, or thrust. This is created as the air released from inside the balloon pushes against the outside air and the outside air pushes back.

