

What are Stomp Rockets?

Stomp rockets are simple air-powered rockets that you can launch into the air by jumping or stomping on a plastic bottle. These rockets are a fun way to learn about the principles of rocket propulsion and aerodynamics.

How do Stomp Rockets Work?

Stomp rockets work on the same principle as real rockets. When you stomp on the plastic bottle, you force air into the rocket. The compressed air pushes against the inside of the bottle, building up pressure. When the pressure becomes too much for the bottle to contain, the rocket shoots into the air as the pressurized air is released, propelling the rocket forward.

Building a Stomp Rocket

You can easily build a stomp rocket using a plastic bottle, a rubber stopper, and a launch tube made of PVC pipe. You attach the rubber stopper to the bottle and then insert the launch tube into the stopper. This creates a tight seal that allows pressure to build up inside the bottle when you stomp on it.

Launching and Experimenting

Once you have built your stomp rocket, find an open outdoor space free from obstacles. After inserting the rocket onto the launch tube, give the rocket a good stomp, and watch it soar into the air! You can experiment with different stomp strengths, bottle sizes, and angles to see how they affect the rocket's flight.

Learning from Stomp Rockets

Stomp rockets are a great way to learn about forces, motion, and aerodynamics in a fun and interactive way. By observing how changes in air pressure and launch angles affect the rocket's flight, you can apply principles of physics and engineering in a hands-on manner.