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Rocket Science: How Rockets Work - A Short and Basic Explanation

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A rocket is a device that channels explosive force to create thrust. Generally, the rocket consists of a fuel or propellant stored in a secure container, usually a cylinder. The cylinder must be open only in one direction, so as to let out the explosive force of the fuel when it is ignited.

How Is a Rocket Made? | Sciencing

Rockets consist of a propellant, a place to put propellant (such as a propellant tank), and a nozzle. They may also have one or more rocket engines, directional stabilization device (s) (such as fins, vernier engines or engine gimbals for thrust vectoring, gyroscopes) and a structure (typically monocoque) to hold these components together.

Rocket - Wikipedia

The frame is made from very strong but light weight materials, like titanium or aluminum, and usually employs long "stringers" which run from the top to the bottom which are connected to "hoops" which run around around the circumference. The "skin" is then attached to the stringers and hoops to form the basic shape of the rocket.

Rocket Parts - NASA

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A rocket must withstand the strong forces during launch and be as light as possible. For the main frame most rockets use aerospace grade aluminum or titanium since both metals are very strong but light weight. Future rocket designs are even looking into using carbon composite structures. Aluminum, however, melts at the high reentry temperatures.

What kind of materials are used for rockets? | How Things Fly

Rocket engines and boosters carry both fuel and an oxidizer. For solid fuel, the components are aluminum and ammonium perchlorate. For liquid fuel, the components are liquid hydrogen and liquid oxygen. When combined, the fuels release water, which allows the rocket to leave the ground.

What Is Rocket Fuel Made Of? | Which, Types, Formula & Best

The evolution of the rocket has made it an indispensable tool in the exploration of space. For centuries, rockets have provided ceremonial and warfare uses starting with the ancient Chinese, the first to create rockets. The rocket apparently made its debut on the pages of history as a fire arrow used by the Chin Tartars in 1232 AD for fighting off a Mongol assault on Kai-feng-fu.

History of Rockets and Space Travel Innovations

Few parts of most rockets are actually made of titanium, including the Space Shuttle's Super Lightweight Tank, which uses an aluminum/lithium alloy (AL 2195) for most of the structure. In key structures such as the attachments for the solid rocket boosters (SRBs), however, a titanium alloy is used.

What are rockets made of? - CosmoQuest

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HOW ROCKETS ARE MADE (Rocket Factory Tour - United Launch ...

NASA uses rockets to launch things and people into space.

What Is a Rocket? | NASA

3. Make your rocket aerodynamic . Now to make sure your rocket is built for speed. Take the pieces of cardboard box and mark out four matching fin shapes. Now draw two concentric circles on the cardboard, one slightly smaller than your discarded circle of bottle plastic and one slightly larger than it.

Transform a bottle into a rocket | Sainsbury's

With time and experience, however, progress was made. A rocket was used for the first time to send something into space on the Sputnik mission, which launched a Soviet satellite on Oct. 4, 1957.

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## The History of Rockets | Space

Checklist SAFETY: This rocket uses air pressure to fling a bottle at high speed 20–50 metres. The bottle must be made entirely of plastic, it must have no sharp points and it must be for a fizzy...

## BBC - Bang Goes the Theory - Hands-on science: Water ...

We make creating the perfect company merchandise easy with our free design service, quality guarantee and incredible team of experts. Each of our account managers has been supplying custom pins, promotional keyrings and other branded products to the UK 's top companies for at least 10 years, so they know how to make your experience go as smoothly as possible.

## Rocket Badge

Merlin is a family of rocket engines developed by SpaceX for use on its Falcon 1, Falcon 9 and Falcon Heavy launch vehicles. Merlin engines use a rocket grade kerosene (RP-1) and liquid oxygen as rocket propellants in a gas-generator power cycle. The Merlin engine was originally designed for recovery and reuse.

## SpaceX - Falcon 9

An artificial firework consisting of a cylindrical case of paper or metal filled with a composition of combustible ingredients- as niter- charcoal- and sulphur- and fastened to a guiding stick. The rocket is projected through the air by the force arising from the expansion of the gases liberated by combustion of the composition.

## How many words can you make out of rocket

The body of your rocket will be made from a plastic water bottle, a paper cone, and two paper or cardboard triangles. You will use three pencils to make a stand. You will also need a cork, water, and a bicycle pump to pressurize the bottle.

## 3 Ways to Make a Simple Rocket - wikiHow

Since their invention by the Chinese in the 13th Century, rockets have seen a substantial amount of development, although they still work on the same principle. Modern rockets come in two main categories, solid fuel and liquid fuel. Liquid-fuel rockets most commonly use liquid oxygen and either kerosene or liquid hydrogen.

## What is rocket fuel made of? - All About Space

Stephenson's Rocket was an early steam locomotive of 0-2-2 wheel arrangement. It was built for and won the Rainhill Trials of the Liverpool and Manchester Railway, held in October 1829 to show that improved locomotives would be more efficient than stationary steam engines. Rocket was designed by Robert Stephenson in 1829, and built at the Forth Street Works of his company in Newcastle upon Tyne.

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