



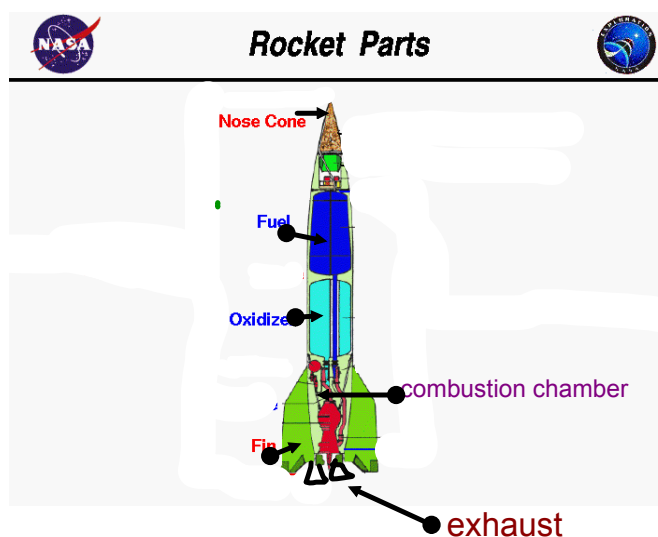
Propeller Design



Each fin of a propeller has an airfoil shape that is angled. The angle is the greatest toward the center because the speed of the propeller through the air is slower close to the hub. (The bend makes up for this)

The Rocket Works

Most rockets today are liquid fueled. They work by combining two liquids in a sealed chamber. When the liquids come into contact with each other, they burn violently, turning into explosive gases. These gases have no place to escape except out the back of the rocket through the nozzle. These gases pushing backwards causes the rocket to go forwards, following Newton's Third Law. Remember, it is the same as a person on a skateboard pushing backward on the ground to go forward.

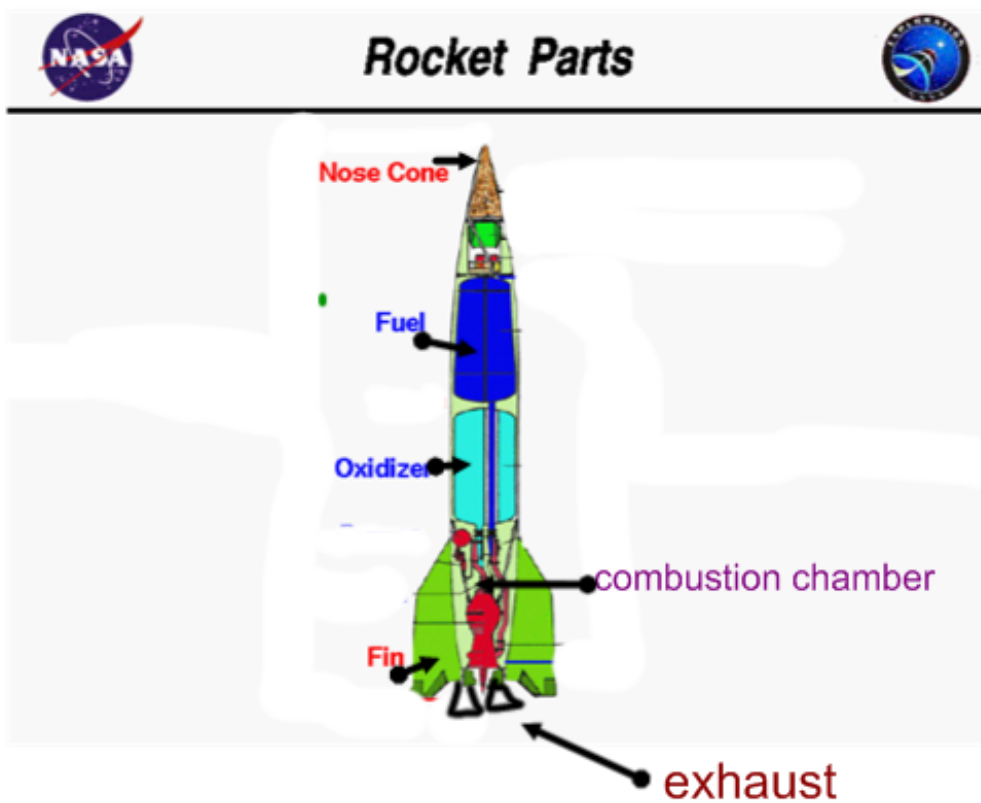


Fins are used to keep the rocket moving straight.

Some rockets are multistage. meaning they have three separate rockets piled on one another. When the fuel in the bottom stage is used up, it separates from the rest of the rocket and discarded.

Since the rocket is now lighter it can go faster.

- Rockets have more than 2 gas tanks
- once one is used (at the bottom) then that part of the rocket breaks off
- Makes rocket lighter

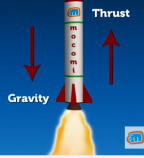


The rocket engine works on the basic principle proposed by Newton which is-

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Newton's Third Law

"For every action there is an equal and opposite reaction."

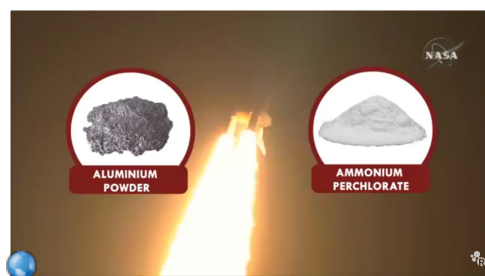


Gravity

Thrust

How do Rockets Work? Basic Principle | Mocomi

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ALUMINIUM POWDER

AMMONIUM PERCHLORATE

NASA



Suggested: I Didn't Know That | National Geographic

How Rockets Work | I Didn't Know That