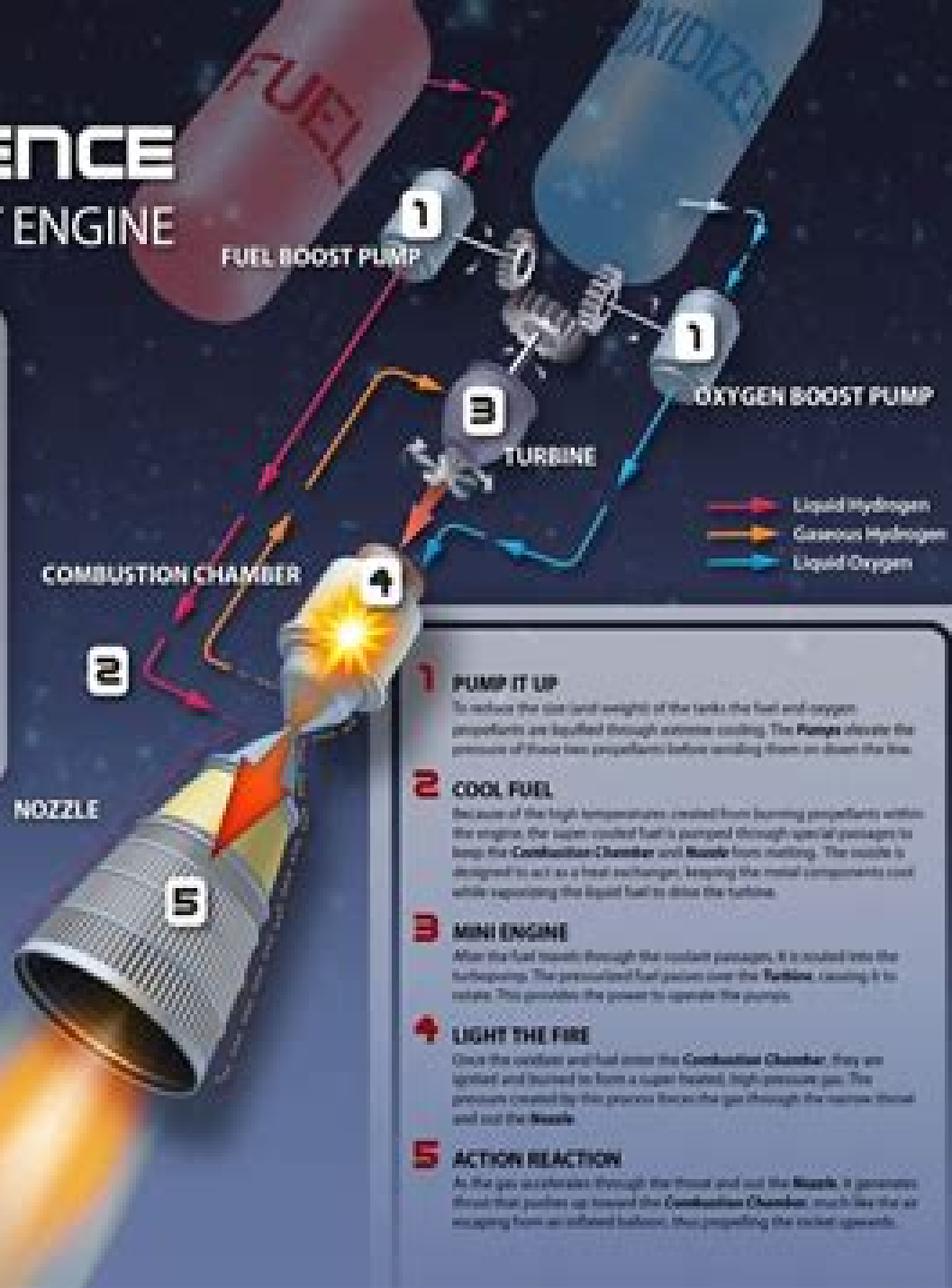


ROCKET SCIENCE

THE BASICS OF A ROCKET ENGINE

There are four main components in a simplified *liquid-fuel* rocket engine: the **Pumps**, the **Turbine**, the **Combustion Chamber**, and the **Nozzle**. Each of these play a critical role in creating enough thrust to propel humans and payloads into Earth orbit... and beyond.

"With no air in space, liquid-fueled rockets need to carry both oxidizer (usually oxygen) and fuel (usually hydrogen or kerosene) in specialized tanks. Liquid Hydrogen is the most powerful rocket fuel. The objective of rocket design is to keep the hardware weight as low as possible. Using Liquid Hydrogen allows for a smaller (and lighter) engine."



1 PUMP IT UP

To reduce the total weight of the tanks the fuel and oxygen propellants are kept under extreme cooling. The **Pumps** increase the pressure of these low propellants before sending them on down the line.

2 COOL FUEL

Because of the high temperatures created from burning propellants within the engine, the **cooled fuel** is pumped through special passages to keep the **Combustion Chamber** and **Nozzle** from melting. The nozzle is designed to act as a heat exchanger, keeping the metal components cool while expelling the liquid fuel to drive the turbine.

3 MINI ENGINE

After the fuel passes through the cooling passages, it is routed into the **turbopumps**. The pressurized fuel passes over the **Turbine**, causing it to rotate. This provides the power to operate the pumps.

4 LIGHT THE FIRE

Once the oxidizer and fuel meet in the **Combustion Chamber**, they are ignited and burned to form a super-heated, high-pressure gas. The pressure created by this process forces the gas through the narrow throat and out the **Nozzle**.

5 ACTION REACTION

As the gas expands through the throat and out the **Nozzle**, it generates thrust that pushes up toward the **Combustion Chamber**, much like the air escaping from an inflated balloon, thus propelling the rocket upwards.

Introduction To Rocket Science And Engineering

SJ Ball



Introduction To Rocket Science And Engineering:

Whispering the Strategies of Language: An Psychological Quest through **Introduction To Rocket Science And Engineering**

In a digitally-driven earth where monitors reign great and quick communication drowns out the subtleties of language, the profound techniques and mental nuances concealed within words often go unheard. Yet, situated within the pages of **Introduction To Rocket Science And Engineering** a fascinating fictional value sporting with raw emotions, lies an extraordinary journey waiting to be undertaken. Written by an experienced wordsmith, this marvelous opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the very fabric of every word. Within the emotional depths of the emotional evaluation, we will embark upon a genuine exploration of the book is core themes, dissect its charming writing design, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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