



# COLEGIO BAYARD

## Mission to Mars

### Stage 4: Propulsion System

Our proposal for the propulsion system is the Electric Propulsion (Ion Rockets). Ion rockets use electricity instead of chemical reactions to produce thrust. What they do is take a gas (such as xenon), give it an electrical charge to convert it into ions, and then use an electric field to accelerate these ions and eject them out of the engine at high speed. This creates a force that pushes the rocket in the opposite direction.

This method is much more efficient than chemical propulsion, but the thrust it produces is quite small. It's like having a very fuel-efficient car, but you can only shift at a very slow speed.

I think that the electric propulsion also is a very safe system to use in rockets. They are a better solution than chemicals, a lot more efficient than the others. \

