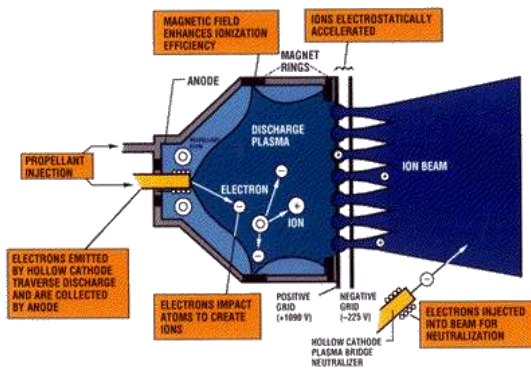


# Risks & Benefits of Space Exploration

## Risks

- *micrometeorites - danger from impact damage to space craft or astronaut during space walk*
- *solar flares and radiation-a brief eruption of intense high-energy radiation from the sun's surface*
- *no atmosphere- we need air to breathe*
- *space debris*
- *when in orbit you are usually moving really fast, with no air this can be a major problem with air friction.*



## Ion Drive

*Ion propulsion is one of the latest advances in spaceflight propulsion. Rather than ejecting a relatively large amount of mass over a short period of time to create thrust, an ion propulsion engine ejects individual atoms at velocities 5-30 times higher than traditional engines, over a much longer period of time.*

## Benefits

- *Memory foam*
- *Water filters*
- *Long range communication*
- *Scratch resistant lenses*
- *Smoke detectors*
- *Baby food*
- *Cordless tools*
- *Satellites- we can now reach any one from almost anywhere on earth due to satellites, we can also predict the weather and monitor environmental conditions such as temperature and water content as well as the gravitational field strength and earth's magnetic field.*