

## ***SPUTNIK: Breaking Barriers for a Modern World***

### ***Process Paper (Words: 437)***

I was always interested in Space Exploration, and I wanted to choose a project to align my interests with this year's theme. The theme was Breaking Barriers, so I thought of groundbreaking inventions like the light bulb or Bluetooth, but I still wanted a subject related to Space Science and yet have an impact on today's world in so many ways. So, I selected the first artificial satellite Sputnik-1 and how the launch helped create today's modern world.

I started my research on the NASA website because I thought that is where I can find detailed and authentic information about the satellite. NASA is an organization created by the United States as part of the response to the sputnik-1 launch. I would find the most knowledge on their site. As my research continued, I discovered that Sputnik1 not only broke the physical barriers but broke many political barriers. Sergei Korolev's struggle to unify the government, military, and scientific community to launch Sputnik-1 was significant. The United States was surprised that Russia could launch a bigger satellite than they were planning before them when sputnik-1 was launched. I found that the Russian Space Web contains lots of information on the Russian side. The book "Sputnik and the Soviet Space Challenge," written by Asif A. Siddiqi was beneficial in my project. I learned that the last thing that they found from Sputnik-1 was a pin ring after burnout while entering the earth's atmosphere.

I chose to present my project in the form of a website because I have experience creating a website for last year's project. The site is the best choice to give visual elements in support of my paragraphs. I used several quotes along with pictures to make the website attractive. I plan to use several quotes made by American politicians and other important officials on my website when sputnik-1 was launched as part of how the US reacted.

Sputnik1 was a simple satellite to test the atmosphere and communicate to the world that the Russians have the technology to launch the artificial satellite. Sputnik-1 broke many barriers are one of the most important events that changed the world. It broke the gravitational barrier and became the first artificial satellite. It started the Space Race between USSR and the USA and its western allies. The Space Race might have ended with Neil Armstrong landing on the moon, but the exploration of space continued and is ongoing even today. Many other countries also joined in this exploration like China, India and Japan. Satellites that can be useful for everyday life like GPS and weather satellites were also launched. The research that was developed as part of Space exploration spilled into other aspects of human life and new technologies were developed.