

The sun rays

Astronauts wear a special suit to go into space.

Question: Why do astronauts wear a special suit to go into space?
What are they protecting themselves from?

Hypothesis: We think one of the reason astronauts wear a suit is that they are protecting themselves from sun rays.

This causes problems for astronauts in space, because the sun rays are more dangerous and there are more than on earth. The danger that in space there is no atmosphere to protect you from gamma rays, (infrared, ultraviolet, and electromagnetic radiation waves ...) coming from the sun, these rays can cause a genetic mutation which can lead to cancer. We also know that the suits used in space are made out of mostly aluminum.

Experiment: To find out the use of the aluminum in the suit, we conducted the following experience:

We used aluminum foil and 2 phones.

1. First, we wrapped one of the phones in aluminum foil to mimic the astronaut's space suit.
2. Using the 2nd phone which wasn't wrapped in aluminum foil, and we called the 1st phone.

Outcome: As we were calling the 1st phone, we noticed that it didn't ring.

Conclusion: We can conclude that aluminum doesn't let through the waves produced by the sun. So astronauts wear a suit to protect them from the sun rays.