



## Space Exploration Brings New Technologies and Research

Space is a harsh environment that is not an easy place for humans to venture. It is this vulnerability that has lead to the invention of various technologies that are used every day on Earth today to improve our lives. Without space programs, we wouldn't have:



GPS



Accurate weather prediction

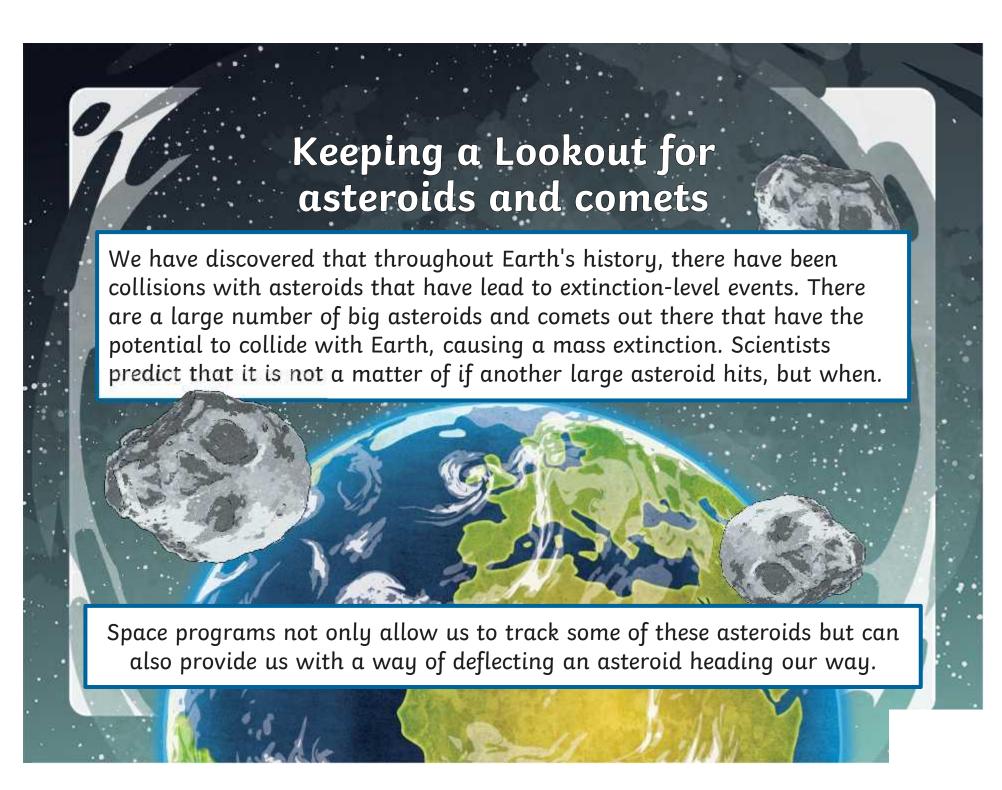


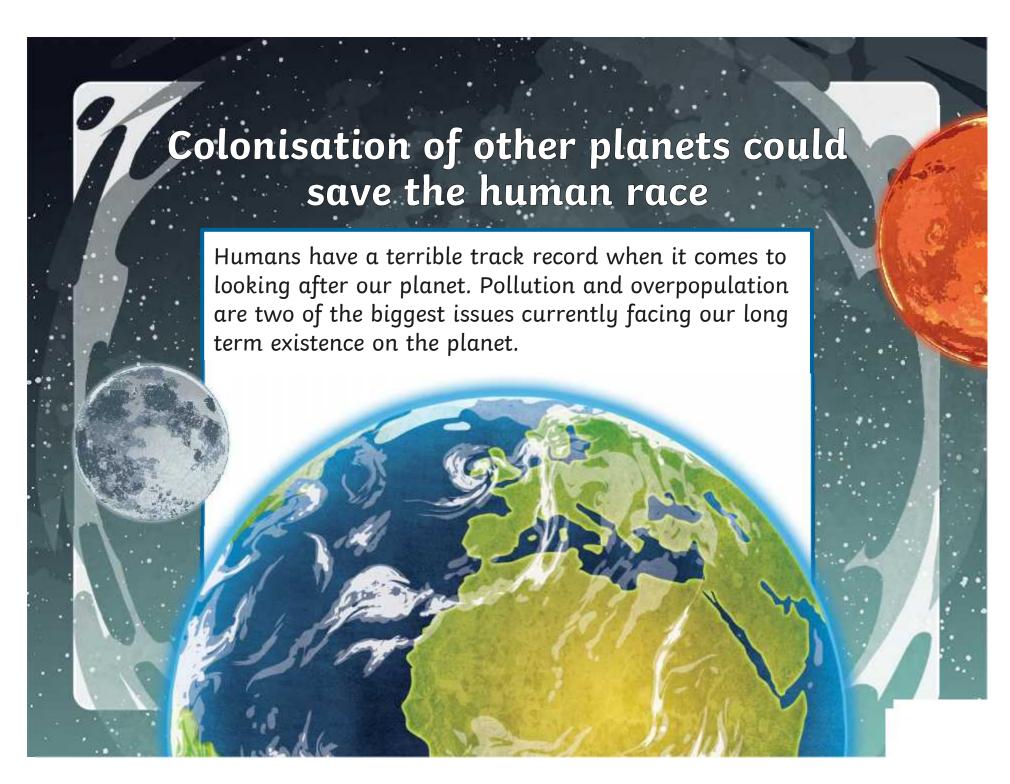
Solar cells

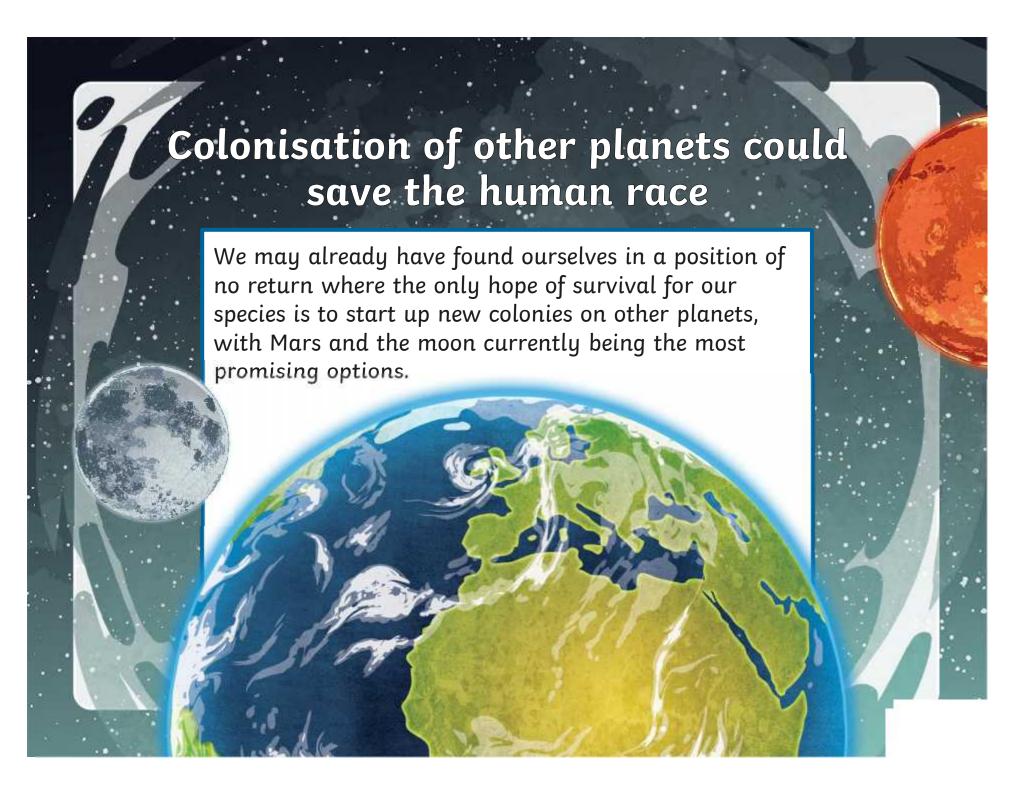


Ultraviolet filters





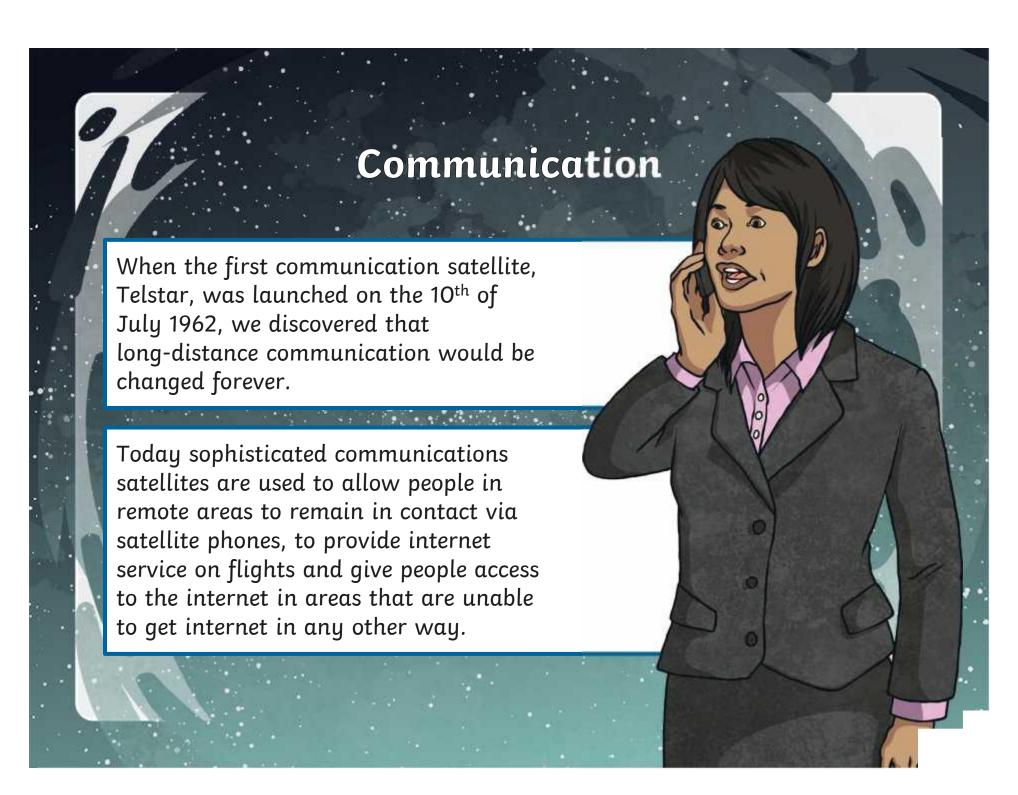




## Mining in Space Could Save the World

We all know that there is a finite amount of raw materials left buried under the earth. As our cities grow and our need for various items increases, so does the pressure on our natural resources. As we develop new technologies on Earth, the strain on our natural resources continues to increase.

We have discovered by studying asteroids that have collided with Earth that they contain elements such as platinum and gold. Mining on asteroids in space would mean we could potentially have an unlimited supply of raw materials that are rare on Earth.

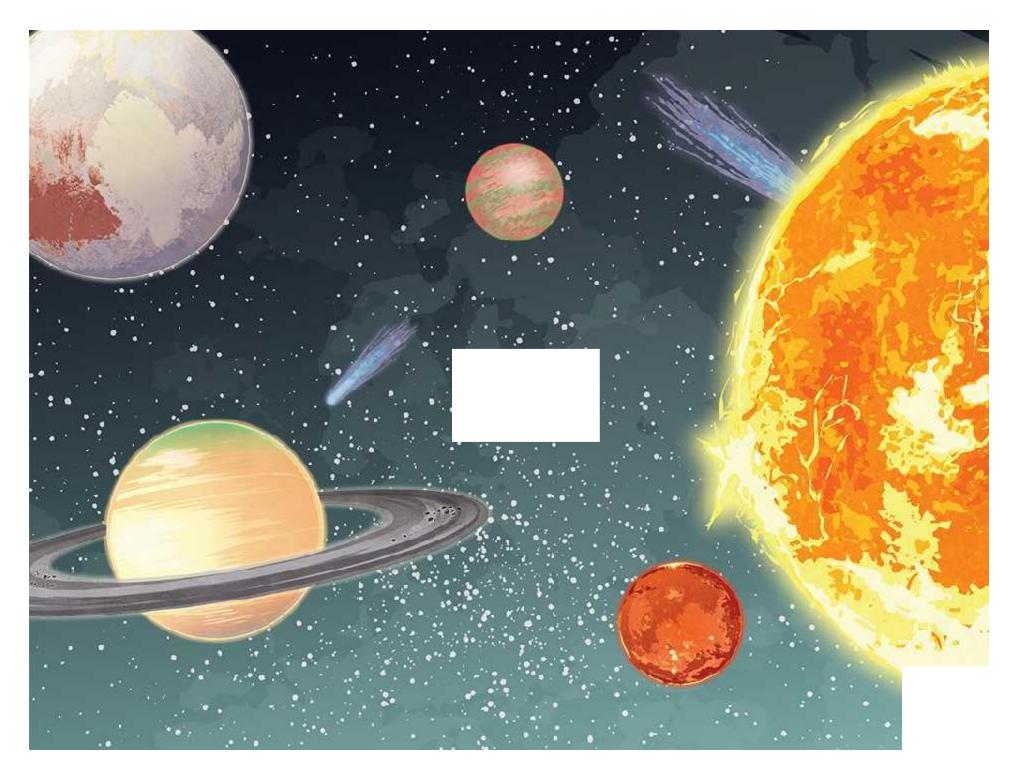


## Accurate Weather Forecasting

Accurate weather forecasting does not only make our daily lives easier to plan; it can also save lives when extreme weather is detected. The first weather satellite, Tiros, was launched on the 1st of April 1960. It used television cameras to take photos of clouds as it orbited the Earth. Although this seems like it would hardly make a difference, it was in-fact enough information to give meteorologists a much more accurate ability to forecast the weather.



Today weather satellites allow meteorologists to monitor the development of weather in areas even when it is dark!



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