



G D GOENKA PUBLIC SCHOOL

Subject: Ev.Sc./ 5TH

Aspect: Supporting Content

Wednesday 09th November 2021

Lesson no 18. Space Exploration

Learning Objective: Students will learn about the concept of Space exploration and Satellites.

Skills: It helps us in answering the fundamental questions about our place the Universe.

➤ **Space Exploration**

Space exploration is a term which describes searching outer space - the physical universe beyond the earth's atmosphere.

Space includes everything beyond the Earth's atmosphere- stars, planets, galaxies etc

Space begins at the **Kármán line** (100 km above sea level). This is where Earth's atmosphere is said to stop and outer space begins.

Space exploration is the use of **astronomy** and **space technology** to explore outer space. While the exploration of space is carried out mainly by **astronomers** with telescopes, its physical exploration though is conducted both by **unmanned robotic space probes** and **astronauts**.

➤ **Satellite**

A satellite is a small object that orbits, or revolves around, a larger object in space. Satellites can be **natural** or **artificial** (made by people).

All the planets in the solar system except Mercury and Venus have natural satellites. Earth's Moon is one example.

Thousands of artificial, or man-made, satellites orbit Earth. Some take pictures of the planet that help meteorologists predict weather and track hurricanes. Some take pictures of other planets, the sun, black holes or far away galaxies. These pictures help scientists better understand the



solar system and universe.

Still other satellites are used mainly for communications, such as beaming TV signals and phone calls around the world. A group of more than 20 satellites make up the **Global Positioning System**, or GPS. If you have a GPS receiver, these satellites can help figure out your exact location.

Homework:

- Q 1. What is a satellite?
- Q 2. What is an artificial satellite?

