

In the Name of God

Chapter 4: A brief history of space exploration

How do you scan the passage?

Follow my roadmap and apply this technique to your reading practices!

Timeline	Space exploration discoveries
20 th century	<ul style="list-style-type: none">Space exploration: A long-held dream fulfilled in the second half of the 20th centuryHow? Rockets overcoming gravity to reach orbital velocityThree countries simultaneously concentrated on designing rocket engines for spaceflight purposes
1930s, 1940s	<ul style="list-style-type: none">Nazi Germany used long-distance rockets as weaponsWorld War II: Germany attacked EnglandMissiles could go as far as 200 miles, as high as 60 miles, and as speedy as 3500 miles per hour.
1957	The Soviets launched the first artificial satellite, Sputnik 1
1958	The 1 st U.S. satellite , Explorer 1 , went into orbit
1960s	Unmanned spacecraft photographed and probed the moon before human landing
1961	<ul style="list-style-type: none">Vostok 1 mission: Yuri Gagarin (Russian astronaut) was the 1st human orbiting the Earth (length of flight: 108 minutes / altitude of 327 kilometers)Alan Shepard was the first American who flew into spaceJohn Kennedy set a national goal: Landing human on the moon
1962	John Glenn's historic flight : The 1 st American orbiting the Earth

1969	Neil Armstrong stepped onto the moon
1969-1972	Six Apollo missions for exploring the moon
Early 1970s	<ul style="list-style-type: none"> • Mariner spacecraft: Orbiting and mapping the surface of Mars • Voyager spacecraft: Sending detailed images of Jupiter and Saturn
1970s	<ul style="list-style-type: none"> • Skylab: America's first space station • Apollo Soyuz project: First international (American and Russian) space mission
1980s	<ul style="list-style-type: none"> • Communication Satellite discoveries: Ozone hole, forest fires, nuclear power-plant disaster in Chernobyl • Astronomical satellites discoveries: Finding new stars
1981	<ul style="list-style-type: none"> • Shuttle Columbia: Reusable shuttle for civilian and military space missions • Up to 1986: 24 successful shuttle launches
1986	Shuttle Challenger: Tragedy Shuttle exploded after launch and killed its crew of seven
1986-present	<ul style="list-style-type: none"> • Reevaluation of space program • New goal: Using a suitable launch system • Today: Using more than one launch method + using available launch facility+ using satellite systems compatible with more than one launch system
1991	Persian Gulf War: Satellites in modern conflicts: Satellites provide information about troops, early warning of attacks, precise navigation, etc.
Now	Space systems could be applied to homeland defense, weather surveillance, navigation and remote sensing for disasters.
2021-	https://drive.google.com/file/d/1aZftUM6va256556pH_Eckj_ALIqp36n6/view?usp=sharing https://drive.google.com/file/d/1TorJGbgMRpXBtxRFmTl-NCBBI8kBoFDC/view?usp=sharing