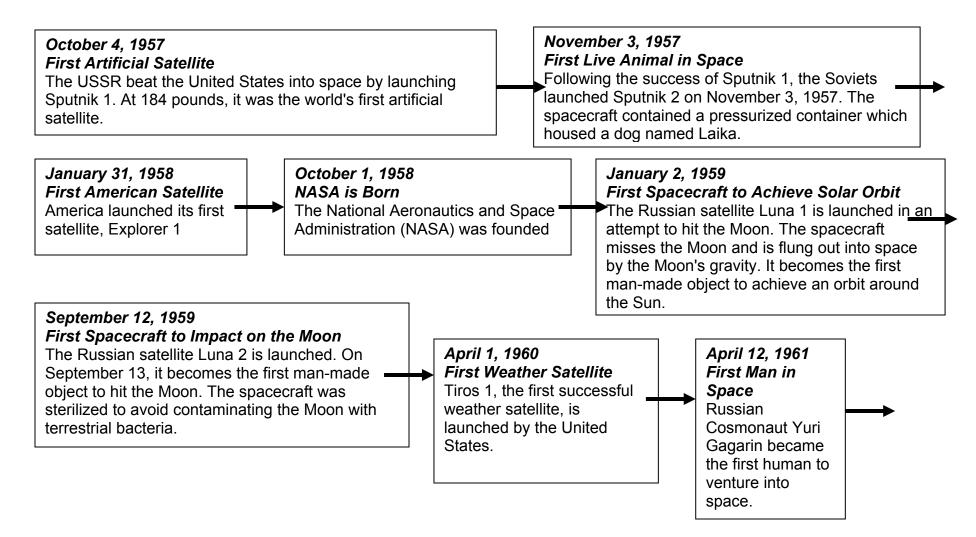
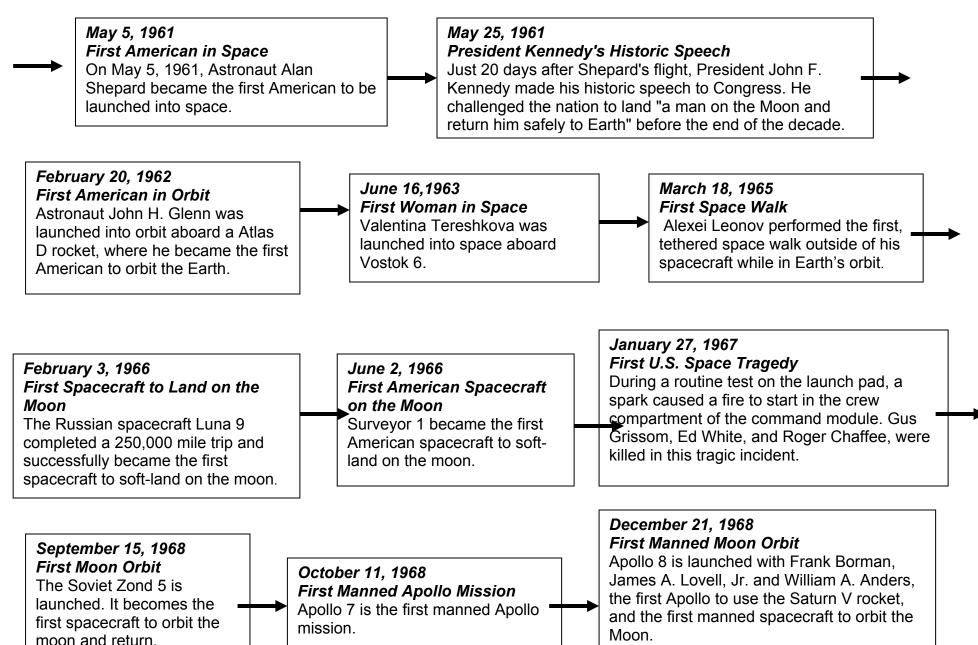
Name

Space Exploration Timeline

Below is a timeline of Famous Firsts in space exploration. Study it carefully and then fill in the last five boxes with what you think the next "Firsts" will be.





July 20, 1969 First Manned Moon Landing Apollo 11 makes the first successful soft landing on the moon. Neil Armstrong and Edwin Aldrin, Jr. become the first human beings to set foot on another world.

April 11, 1970 Apollo 13 Launch Apollo 13 is launched, suf its SM oxygen tanks. Its M and the crew, James A. Le

Apollo 13 is launched, suffering an explosion in its SM oxygen tanks. Its Moon landing is aborted, and the crew, James A. Lovell, Jr., John L. Swigert, Jr. and Fred W. Haise, Jr., return safely after several harrowing days in space.

September 12, 1970 First Return of Lunar Soil

The Soviet Luna 16 is launched, conducting the first successful return of lunar soil samples by an automatic spacecraft.

December 15, 1970 First Landing on Venus

The Soviet Venera 7 is the first 'probe to soft-land on Venus.

April 19, 1971 First Space Station

The Salyut 1 space station is launched by the U.S.S.R.

July 30, 1971 First Lunar Rover Mission

Apollo 15 astronauts David Scott and James Irwin drive the first moon rover while exploring the Moon's surface.

November 13, 1971 First Spacecraft to Orbit Another Planet

American space probe Mariner 9 (launched May 30, 1971) is the first spacecraft to orbit another planet, Mars.

December, 1972 First Black Hole Candidate

Astronomers designate Cignus X-1 as the first probable black hole.

May 14, 1973 First U.S. Space Station

The United States launches Skylab, the first U.S. space station. It will be occupied by three crews and be an important arena for a number of scientific experiments.

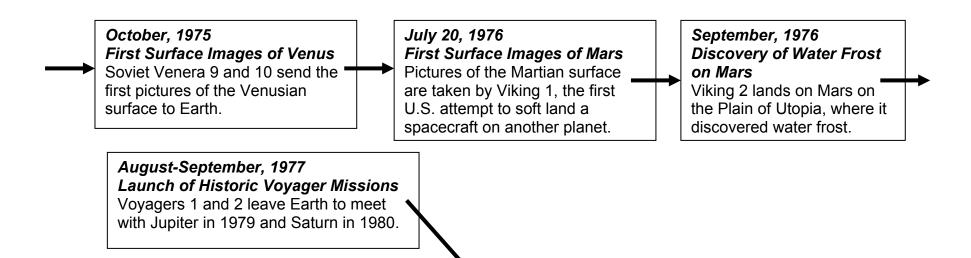
May 25, 1973 First Skylab Crew The United States

The United States launches Skylab 2, carrying the first crew to visit Skylab.

July 17, 1975

First International Space Rendezvous

American Apollo (18) and Soviet Soyuz 19 dock in what is the first international spacecraft rendezvous. Known as the Apollo-Soyuz Test Project, this important mission proved that U.S. and Russian crews could work together successfully in space.



December, 1978

U.S. Probes Arrive at Venus

Two U.S. Pioneer spacecraft reach Venus. One drops four probes into the atmosphere, while the other maps the surface.

March 5, 1979

Voyager 1 Arrives at Jupiter

The U.S. Voyager 1 spacecraft, launched in 1977, arrives at Jupiter and begins sending back amazing images of the giant planet and its moons.

July 9, 1979

Voyager 2 Arrives at Jupiter

The U.S. Voyager 2 spacecraft, launched in 1977, arrives at Jupiter and begins sending back images of Jupiter and its moons.

September 1, 1979

First Images of Saturn

The U.S. space probe Pioneer 11 reaches Saturn, flying within 13,000 miles and taking the first close-up photographs of the planet.

July 9, 1979

Voyager 1 Arrives at Saturn

The Voyager 1 spacecraft arrives at Saturn and begins sending back images of the ringed planet and its moons.

February 3, 1984

terrain, sending back amazing

(MMU).

First Untethered Spacewalk

Astronaut Bruce McCandless

takes the first untethered

space walk using the new

Manned maneuvering Unit

June 19, 1983 April 12, 1981 First American Woman in Space First Space Shuttle Launch Sally K. Ride becomes the first The first manned mission of the Space American woman to travel in space Transportation System (STS-1), on Challenger mission STS-7. Columbia, is launched. January 28, 1986 February 20, 1986 August 25, 1989 Challenger Tragedy Mir Station Launched Voyager 2 Arrives at Neptune The space shuttle Challenger explodes The first phase of the Mir space The Voyager 2 spacecraft arrives shortly after liftoff of mission STS-51L. station is successfully launched at Neptune, giving us our first resulting in the loss of the spacecraft and placed into Earth orbit. close-up views of the blue planet and her crew. and its moons. April 24, 1990 June 25, 1995 July 4, 1997 Launch of Hubble Space First Shuttle Docks with Mir Mars Pathfinder Lands on Mars Space Shuttle Atlantis Telescope The Mars Pathfinder probe lands Space Shuttle Discovery lifts off rendezvous with Russian space on the surface of Mars. A small for mission STS-31, carrying the station Mir during a ten-day robotic rover examines the nearby

mission on STS-71.

Edwin P. Hubble Space

Telescope (HST).

November 20, 1998

Station (ISS).

ISS First Module Launched

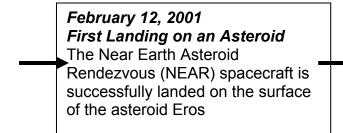
A Russian Proton rocket is launched from the

Baikonur Cosmodrome on the steppes of the

Russian built Zarya Control Module, the first

component of the new International Space

images of the planet's surface. February 14, 2000 First Detailed Study of an Asteroid The U.S. Near Earth Asteroid Rendezvous (NEAR) spacecraft arrives at the asteroid Eros. It begins a year-Asian nation of Kazakstan. This rocket carries the long mission to study the gravity and composition of Eros in addition to sending back detailed images of the asteroid's surface.



April 28, 2001 First Tourist in Space

American businessman Dennis Tito becomes the first tourist to fly into space. His 20 million dollar offer is rejected by the United States, but is later welcomed by the Russian space program. A Soyuz space capsule delivers the space tourist and the Russian crew to the International Space Station, where Tito is given limited access to the station.

What do you think the next five "firsts" will be? What countries will be involved? What missions will be launched? What objects in space will be explored next? Fill in the boxes with your predictions.

