## Space Exploration Timeline

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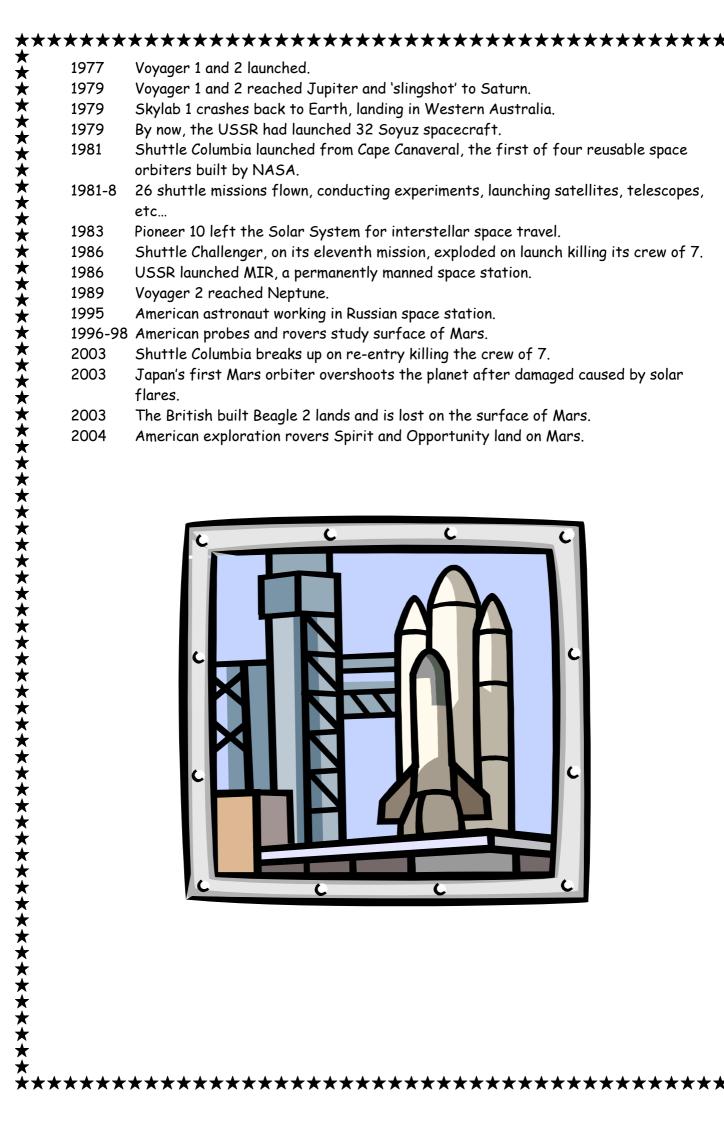


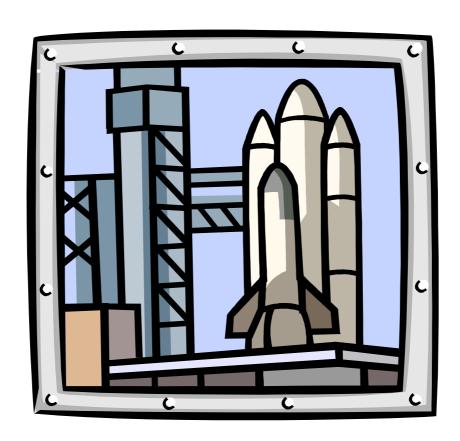
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- 1. From the information given below, draw a timeline to show the development of space exploration from the early twentieth century to the present time.
- 2. Devise a set of symbols to represent the types of exploration (unmanned space flight, manned space flight, flight to the Moon, space walking, space probes to planets etc......). Use the symbols to explain each of the events on your timeline. Don't forget to include a key to show what your symbols mean.
- 1898 Konstantin Tsiolkovsky devised the formula which governs rocket propulsion.
- 1926 Robert Goddard built and launched the first liquid fuel rocket.
- 1939-45 Germany built the V2 rocket.
- 1957 USSR launched Sputnik 1, world's first artificial satellite.
- 1957 Sputnik 2 launched carrying Laika, first dog in space.
- 1958 NASA (National Aeronautics and Space Administration) set up by the USA.
- 1959 USSR launched Luna 1, 2 and 3 to investigate the Moon.
- January, NASA launched Ham, a chimpanzee, in a Mercury rocket.
- 1961 April, Yuri Gagarin, first man in space, flight 108 minutes in Vostok 1.
- 1961 May, Alan Shepard spent 15 minutes in space.
- Mariner 1 and Mariner 2 launched by NASA to study Venus.
- 1963 Valentina Tereshkova, first woman cosmonaut, launched in Vostok 6.
- 1964 Russian cosmonaut Alexei Leonov made the first space walk.
- Mariner 4 took 8 months to reach Mars and is the first robotic spacecraft to study Mars.
- 1965-66 NASA launches 10 manned Gemini flights (two astronauts).
- 1967 Apollo 1 burnt on launch pad and Soyuz 1 crashed.
- 1967 Russian Venera spacecraft dropped a capsule to the surface of Venus.
- 1968-69 Apollo 7-10 prepared for a lunar landing, orbiting the Moon, manoeuvring and docking with the lunar module.
- 1969 Soyuz 4 docked in space with Soyuz 5.
- 1969 Mariner 6 and Mariner 7 sent to Mars.
- July 20 (GMT) Apollo 11 landed on the Moon. Neil Armstrong and Buzz Aldrin first men to walk on the Moon.
- 1971 Mariner 9 orbits Mars for 1 year.
- 1971-7 USSR launched six Salyut space stations.
- Mariner 10 used the gravity of Venus to 'slingshot' to Mercury.
- 1974 NASA launched Skylab 1 and during the year three crews manned the space laboratory.

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1975 Historic docking of Soyuz 18 with an Apollo spacecraft.





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