

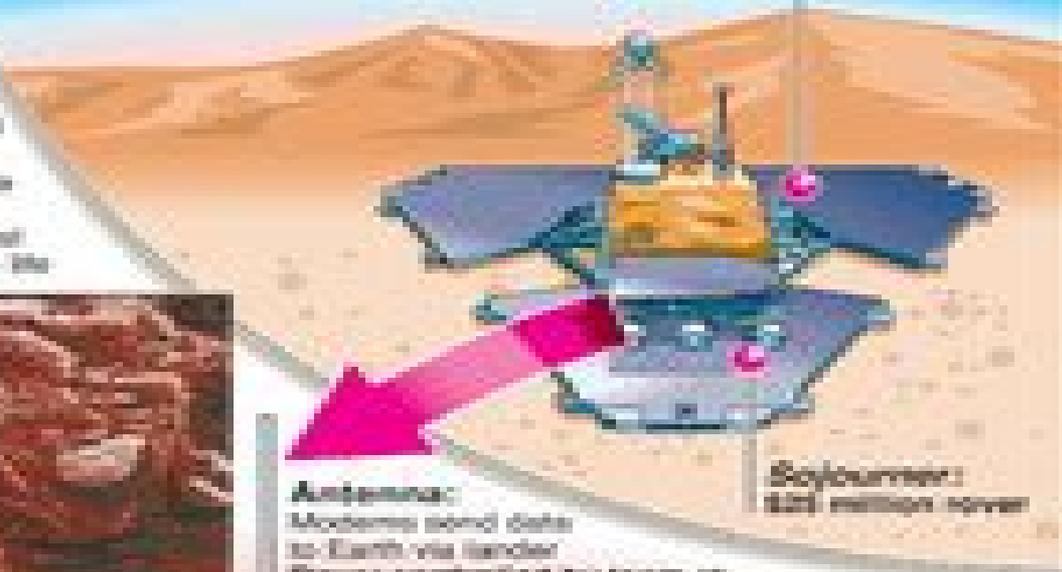
Pint-sized geologist searches for signs of life on Mars

Mars Pathfinder, due to land on July 4, carries a small rover designed to move up to Martian rocks and analyse their chemical composition. From the data it sends to Earth, scientists may be able to confirm the presence of ancient water – the necessary ingredient for life. Pathfinder will land at a giant channel where floods may have deposited rocks from ancient highlands. The rocks are roughly the same age as the 4.5 billion-year-old Mars meteorite (below right) which sparked the Life-on-Mars debate last August with supposed evidence of ancient microscopic life.



Pathfinder aeroshell: Includes airbags to cushion landing

Pathfinder lander: Analysis of planet surface



Soyuz carrier: \$25 million rover

Antennae: Moderns send data to Earth via lander. Rover controlled by team at NASA's Jet Propulsion Laboratory in California.



Solar panels

Going mobile: Small air-shielded rover studies surface of Mars and collects samples of pebbles, rock chips and dust

Warm box: Designed to protect electronics from extreme temperatures of minus 120 degrees Centigrade during Martian night

Wheels: 120mm diameter, individually powered with gear ratio of 20:1. Independently steerable front and rear wheels allow vehicle to turn in place

Top speed: 40mm/minute
 Operating range from lander: 30.5m
 Weight: 18.5kg Length: 650mm
 Height: 280mm Width: 490mm



Drives over vehicle using virtual reality goggles linked to cameras on rover and lander

Earthlings Guide To Mars Travel To Mars With Pathfinder

Wolfgang Engelhardt



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An Earthling's Guide to Mars Carolyn Sumners, Kerry Handron, 1999 This unique travel guide includes full color art and photographs of the Martian landscape Scenic spots weather reports travel tips and hundreds of pictures take kids on an outer space vacation

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Humans to Mars David S. F. Portree, 2000 **School Library Journal** ,1998 **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12 **America's Millennium** ,1999 Humans in Space Harry L. Shipman, 2013-11-11

NASA Tech Briefs ,1989 Children's Books in Print, 2007 ,2006 **Robots in Space** Spencer Parks, 2021-07-15 Robots don t need to breathe eat or sleep This makes them perfectly suited for work in the vacuum of space Rovers on Mars have given humanity a wealth of knowledge about this planet and machines that repair shuttles and other equipment are invaluable to astronauts In this exciting STEM exploration readers learn about space robots Intriguing sidebars explore the ways science fiction has influenced the creation of real robots and informative fact boxes and accessible main text discuss robots of the past present and future Full color photographs and a list of critical thinking questions keep readers engaged as they learn **Books in Print Supplement** ,2002 *Science Encyclopedia Astronomy and Space* Clifford, 2007-08-01 Take An In Depth Look At Astronomy And Space In This Science Encyclopedia **Mars** Wolfgang Engelhardt, 1999 A description of Mars the fourth planet from the sun which includes information on the controversy over possible life on Mars on the planet s moons and on space probes and spacecraft which have studied it CD ROM included *Classroom Connect Newsletter* ,2002 *The Future of Space Exploration* ,1999 **Low-cost Innovation in Spaceflight** Howard E. McCurdy, 2005

NASA Conference Publication ,1988 **Technology for Future NASA Missions** ,1988 The Technology for Future NASA Missions conference was held during the period September 12 13 1988 at the Capital Hilton in Washington DC The conference provided industry and university executives programmatic and technical information on OAST space technology efforts The conference was jointly sponsored by the American Institute of Aeronautics and Astronautics and the National Aeronautics and Space Administration First day proceedings were devoted to programmatic discussions of CSTI Pathfinder and the Research and Technology Base program Second day activities included the coverage of technical efforts on a more detailed basis A Guide to Backyard Astronomy Robert Burnham, Alan Dyer, Robert A. Garfinkle, Martin George, Jeff Kanipe, David H. Levy, 2003 **Forthcoming Books** Rose Army, 2003

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