

MISSION TO MARS – YEAR 5



Websites

www.sciencenetlinks.com/interactives/messenger/psc/PlanetSize.html

Science Net features a simple program for comparing planet sizes.

www.kidsastronomy.com/solar_system.htm

The Astronomy for Kids website provides a basic overview of the different planets, with images, diagrams and model simulations.

www.bbc.co.uk/science/space/solarsystem/sun_and_planets

The BBC Space website has an excellent section on our solar system, with stunning images and links to further information.

www.enchantedlearning.com/subjects/astronomy/planets/

Enchanted Learning has a planets section, which offers a variety of data on the planets, using simple comparative graphs and tables.

www.discoveringfossils.co.uk/fossilfuels.htm

Discovering Fossils is a UK site that features a section on fossil fuels.

<http://energyquest.ca.gov/story/index.html>

Energy Quest is a colourful and engaging website with facts and videos about energy.

www.ecokids.ca/pub/eco_info/topics/energy/world/index.cfm

EcoKids has an energy facts interactive game and a useful section on fossil fuels.

www.eia.gov/kids/energy.cfm?page=1

Energy Kids is a comprehensive web resource, exploring energy sources and their use.

www.universetoday.com/21293/despite-dust-storms-solar-power-is-best-for-mars-colonies/

Universe Today features an article looking at the viability of using solar power on Mars.

www.google.com/mars

Google Maps: Mars provides an interactive map of Mars. Click on the 'visible' tab to view a black-and-white version of the map. Key locations can be found by browsing or typing in the name. You can also zoom in and out of the map to explore in more detail.

www.worldwidetelescope.org

The World Wide Telescope uses images from ground and space-based telescopes to create fully interactive 3D models.

http://athena.cornell.edu/mars_facts/geography.html

The Athena Mars Mission website has a simple overview of Martian geography.

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http://solarsystem.wikia.com/wiki/Geography_of_mars

The Wikia Solar System site has a Mars section, with a list of famous features, most of which are highlighted on the Mars map at the bottom of the page.

www.boston.com/bigpicture/2009/11/martian_landscapes.html

The Boston Globe website has a stunning collection of images of the Martian surface, taken by NASA's Mars Reconnaissance Orbiter (MRO). (Note: there are some comments at the bottom of this webpage which may be considered inappropriate. Therefore, you are advised to download these images and view separately. NASA images are copyright free.)

<http://mars.jpl.nasa.gov/mro/multimedia/images/>

The Official Mars Reconnaissance Orbiter (MRO) website has an images gallery. Children can search through the selection for images of Mars' landscape.

www.bbc.co.uk/schools/events/spaceday/astronauts.shtml

BBC Schools features a short Q&A session with an astronaut, who talks about life, work and exercise in space.

www.oosa.unvienna.org/oosa/SpaceLaw/outerspt.html

United Nations Office for Outer Space Affairs website outlines the nine key principles of 'The Outer Space Treaty'.

www.climatechoices.org.uk/pages/activities0.htm

Climate Choices – Children's Voices is an excellent resource, focusing on the critical issues that surround climate change and global warming.

http://library.thinkquest.org/CR0215471/acid_rain.htm

ThinkQuest is a website packed with useful information, including this feature on acid rain and its impact on the environment.

www.breathingearth.net

Breathing Earth is a real-time virtual simulation, showing the CO₂ emissions from every country in the world.

www.guardian.co.uk/news/datablog/2011/jan/31/world-carbon-dioxide-emissions-country-data-co2

The Guardian website has an article on world CO₂ emissions, which includes an 'Atlas of Pollution' showing those countries that contribute the most.

www.mapsnworld.com

World Maps has hundreds of maps on its site, exploring various social and political themes.

www.worldmapper.org

Worldmapper is a collection of world maps, where territories are re-sized on each map according to the subject of interest.

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www.nasa.gov/mission_pages/station/main/index.html

The NASA website has a section dedicated to the ISS. This section features video footage, images and interactive tours of the station.



Videos

www.youtube.com/watch?v=y3GF3PFNx8Y

YouTube hosts a BBC documentary, looking at living organisms surviving in extreme weather conditions. (Note: this clip has a short advert preceding it.)

www.youtube.com/watch?v=VU-A6Sx7k-U

YouTube hosts a documentary looking at a type of bacteria that can survive in scalding hot springs.

www.youtube.com/watch?v=uqSIEOfhI8U

YouTube documentary following NASA scientist, Richard Hoover, on his hunt for extremophiles.

www.youtube.com/watch?v=0J1NwYtfFbU&

YouTube hosts this excellent compilation of real and conceptual footage to tell the story of the Mars Pathfinder mission.

www.youtube.com/watch?v=nb2GsD7TAjU

YouTube features this short 'ScienCentral News' clip on the Mars rovers.

www.youtube.com/watch?v=BpwYmQUIBUk

YouTube hosts this short NASA clip, showing examples of astronaut exercises.

www.youtube.com/watch?v=dWLFkLWb2vA

YouTube hosts a series of films from the International Space Station (ISS) showing different aspects of life on board on the station. This video focuses on exercise.

www.jpl.nasa.gov/video/index.cfm?id=920

The NASA Jet Propulsion Laboratory website has footage of scientists testing the latest robotic rover.

<http://marsrovers.jpl.nasa.gov/gallery/video/challenges.html>

NASA's Mars Rovers website features an excellent video entitled 'Six Minutes of Terror', which looks at the nail-biting process of getting a Mars rover safely down on to Mars.

www.spacetelescope.org/videos/astro_az/

The Hubble Space Telescope website features a short 3D tour of a base on Mars.
