

NASA Aerospace Educational Services Program (AESP)
Solar System & Lunar Science
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Title: Solar System and Lunar Science

Description: This session will highlight NASA education resources & opportunities for teachers to use with their students. It will provide overview of NASA missions related to the solar system and the moon, the resources..

Presenter: Jim Fitzgerald, Aerospace Education Specialist
Jim is the NASA AESP Representative in the NASA Glenn Research Center six-state region. Request AESP programs at: <http://csats.psu.edu/aesp.htm>

- NASA Portal: <http://www.nasa.gov>
- NASA Express Email Registration: <http://www.nasa.gov/audience/foreducators/index.html#>
- Space Based Astronomy Educator Guide –
<http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Space.Based.Astronomy.html>
- Exploring the Moon Educator Guide -
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Our_Solar_System_Lithograph_Set.html
- Solar System Lithograph Set -
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Our_Solar_System_Lithograph_Set.html
- NASA Solar System Exploration Homepage - <http://solarsystem.nasa.gov/index.cfm>
- Solar System Simulator - <http://space.jpl.nasa.gov/>
- NASA Solar System Featured Items - <http://www.nasa.gov/topics/solarsystem/index.html>
- NASA JPL Solar System Dynamics - <http://ssd.jpl.nasa.gov/>
- Modeling Orbits in our solar System <http://solarsystem.nasa.gov/educ/docs/modelingsolarsystem.pdf>
- Sunspots <http://image.gsfc.nasa.gov/poetry/workbook/workbook.html>
<http://nasadln.nmsu.edu/dln/content/catalog/details/?cid=411>
http://www.nasaexplores.com/show2_article.php?id=02-002
- Distance to the Moon NE
-Earth Moon Mars Balloon NE
-Exploring the Moon Guide
http://media.nasaexplores.com/lessons/04-213/5-8_2.pdf
http://www.nasaexplores.com/show2_article.php?id=04-213 (NE - Article)
- Distance to the Moon (Exploring the Moon - Educator Guide)
<http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Exploring.the.Moon.html>
- LPI Explore <http://www.lpi.usra.edu/education/explore/>
- Mars Bound! Mission to the Red Planet <http://marsed.asu.edu/pages/pdfs/MarsboundStudentGuidev100.pdf>
<http://marsed.asu.edu/activities.php>
- Other Good Places - http://starchild.gsfc.nasa.gov/docs/StarChild/other_places.html
- Science @ NASA - <http://science.hq.nasa.gov/index.html>
- NASA Education Literature & resources
http://www.nasa.gov/audience/foreducators/topnav/materials/listbygradelevel/bygrade_K-4_landingpage.html
- Astromaterials Curation Laboratory (JSC) <http://curator.jsc.nasa.gov/> <http://ares.jsc.nasa.gov/index.cfm>
<http://ares.jsc.nasa.gov/Education/index.cfm> <http://curator.jsc.nasa.gov/lunar/sampreq/index.cfm>
- Lunar Sample Disk Loan Program - <http://curator.jsc.nasa.gov/lunar/sampreq/disks.cfm>
- GSFC (one NASA Center's Loan procedures) <http://www.nasa.gov/centers/goddard/visitor/loan/index.html>
- NASA Origins Homepage <http://origins.jpl.nasa.gov/index1.html>
- Planet Quest <http://planetquest.jpl.nasa.gov/>
- Exo-Solar Planets <http://www.nasa.gov/vision/universe/newworlds/extrasolar-083104.html>

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Other Links:

- Exploration Systems Mission Directorate: <http://www.exploration.nasa.gov/>
- STS-118 Mission: <http://www.nasa.gov/sts118>
- STS-123 Mission: http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts123/
- Human Spaceflight: <http://spaceflight.nasa.gov>
- Space Operations Mission Directorate: <http://www.hq.nasa.gov/osf/>
- NASA Vision for Space Exploration: http://www.nasa.gov/mission_pages/exploration/main/index.html
- Space Shuttle: http://www.nasa.gov/mission_pages/shuttle/main/index.html
- Astronaut Selection: <http://www.nasajobs.nasa.gov/astronauts/>
- Astronaut Biographical Sketch: <http://www.jsc.nasa.gov/Bios/>
- Humans in Space: <http://www.nasa.gov/vision/space/features/index.html>
- New Launch Vehicle: http://www.nasa.gov/mission_pages/constellation/main/index.html
- Robotics <http://robotics.nasa.gov/home/home.php>
- Astronauts' Little Helpers: http://www.nasaexplores.com/show2_article.php?id=01-046
- ImagiBotics: <http://robotics.arc.nasa.gov/edu/6-8.htm>
- [http://digg.com/educational/New NASA video: astounding arctic sea ice melt](http://digg.com/educational/New_NASA_video:_astounding_arctic_sea_ice_melt)
- <http://www.youtube.com/watch?v=EI05cqdV1kM>

Introduction to NASA Education

NASA Education : <http://education.nasa.gov>

- STS-118 Student Challenges: <http://www.nasa.gov/audience/foreducators/stseducation/home/index.html>
- Education Resources
[http://www.nasa.gov/audience/foreducators/topnav/schedule/extrathemes/F Back to the Moon and Mars Extra.html](http://www.nasa.gov/audience/foreducators/topnav/schedule/extrathemes/F_Back_to_the_Moon_and_Mars_Extra.html)
- Student Opportunities: <http://www.nasa.gov/audience/forstudents/5-8/features/index.html> ,
[http://www.nasa.gov/audience/forstudents/5-8/features/F Vision for Space Exploration.html](http://www.nasa.gov/audience/forstudents/5-8/features/F_Vision_for_Space_Exploration.html)
- NASA Connect: <http://connect.larc.nasa.gov/>
- NASA Connect – Student Sheet - Functions and Statistics – International Space Station – Up to Us:
http://connect.larc.nasa.gov/connect_bak/pdf/00_5.pdf
- NASA Explorer Schools <http://explorerschools.nasa.gov>
- Digital Learning Network: <http://nasadln.nmsu.edu/dln/>
- Central Operations of Resources for Educators (K-4 resources)
<http://catalog.core.nasa.gov/core.nsf/CoreWtype?SearchView&SearchOrder=4&Query=K-4>
- Science @ NASA <http://science.hq.nasa.gov/index.html>
- Science @ NASA Educators page <http://science.hq.nasa.gov/education/index.html>
- Space Place <http://spaceplace.nasa.gov>
- Sci-Files <http://scifiles.larc.nasa.gov/treehouse.html>
- NASA Quest <http://quest.nasa.gov>
- NASA Explores: <http://www.nasaexplores.com>
- National Education Standards: <http://www.nasaexplores.com/standards/standards.php>
- Earth Moon System: [http://www.nasa.gov/audience/foreducators/k-4/features/A Earth Moon Mars Balloons.html](http://www.nasa.gov/audience/foreducators/k-4/features/A_Earth_Moon_Mars_Balloons.html)