



NEW WORLDS, NEW DISCOVERIES

Join NASA on a cosmic road trip across our vast solar system!

Bring New Worlds and New Discoveries to Your Community!

Explore planetary discoveries and concepts within a collection of resources and materials!

New Worlds, New Discoveries offers the continued opportunity to get involved in NASA science through the Year of the Solar System (YSS), as well as a salute to the 50-year history of solar system exploration. Providing an integrated view of our new understanding of the solar system, New Worlds, New Discoveries combines the amazing discoveries of past NASA planetary missions with the most recent findings of the ongoing missions, in this current unprecedented age of planetary exploration!

New Worlds, New Discoveries offers valuable educational materials and resources to engage students and the general public in exciting topics related to today's big questions in planetary science.

The journey continues with the anniversary of 50 years of solar system exploration.



During the last five decades, NASA has launched a variety of robotic spacecraft and manned missions to study the planets and moons of our solar system. Over that time, our understanding of planets has been revolutionized, as has the technology that has made these discoveries possible.

Find Inspiration:

- Mission milestones and discoveries
- Educational materials and activities
- Images and videos related to each YSS topic

Get Involved:

- Host your own public event and share it on the YSS site! Registering your event is quick and easy and is a great way to get the word out about your program!
- Receive a FREE YSS educator kit and promotional materials (while supplies last).

Make Connections:

- Find events near you! Upcoming public YSS-related events are shown on the Calendar of Events and map.

Get Social:

- Use Twitter, Facebook, YouTube, and Flickr, or contribute and read stories to share your YSS experience with others and see what other people are doing.
- See the latest YSS-related tweets on the OurSolarSystem Twitter feed! Post a tweet with the hashtag #nasayss and your own tweet will show up on the YSS website.
- Friend OurSolarSystem on Facebook to get the latest solar-system-related updates.

**Get Involved with
NASA Science Through
the Year of the Solar System
and 50 Years of
Solar System Exploration**

**Embark on A Journey Through
NASA's Fifty Years and Continuing
Exploration of the Solar System!**

This is an unprecedented time in planetary sciences as we learn about new worlds and make new discoveries!



New Worlds, New Discoveries offers

Activities, resources, and background science information

Connections to the National Science Standards

All organized by topics that highlight exciting discoveries in our solar system and ready for use by YOU with your audiences!

Visit the website to...

- Learn about different topics: formation, water, moons and rings, volcanism, and more
- Find educational activities for K–12 and undergraduate classrooms
- Find educational activities for clubs/organizations and other out-of-school settings
- Find background information for each topic
- Download free resources such as bookmarks, PowerPoint files, and website widgets
- Discover many ways to get involved! Share your own observing session, workshop, planetarium show, or other event

Connect with NASA planetary missions, research, and resources through today's big questions in planetary science!

How did our Sun's family of planets and bodies originate?			
The Journey Begins Scale of the Solar System 	Birth of Worlds Formation of the Solar System 	A Family Affair The Planets — Investigating Our Planetary Family Tree 	
How has our solar system evolved to its current diverse state?			
Windy Worlds Gas Giants, Atmospheres, and Weather 	Our Favorite Things Moons and Rings 	Leftovers from Planet Building Asteroids 	Small Bodies / Big Impacts Comets
Volcanism in the Solar System! 	Shadows of the Sun The Sun, Transits, and Eclipses 	Ice in the Solar System! 	Gravity: It's What Keeps Us Together
Impacts! Collisions and Craters in the Solar System 	Water, Water, Everywhere! Water in the Solar System 	Evolving Worlds How Planets Change Over Time 	Magnetospheres: Planetary Shields
Ancient Astronomers / Modern Tools Early Observations to Telescopes to Spacecraft 	New Data, New Ideas Our Evolving Understanding of the Solar System 		Far-Ranging Robots Robotic Spacecraft
How did life begin and evolve on Earth? Are we alone?			
Discovering New Worlds The Search for Planets 		Got Life? Astrobiology – Are We Alone in the Universe? 	
Missions Key:			
Mercury: MESSENGER Mars: MRO, MSL, MER, Mars Odyssey and MAVEN Jupiter: Juno Saturn: Cassini		Moon: LRO, GRAIL, LADEE Sun: SOHO and SDO Other Solar System Objects: Dawn, EPOXI, New Horizons, Stardust-NEXT, OSIRIS-REX Beyond the Solar System: Kepler, Hubble Space Telescope, Spitzer	
*This is just a sampling of missions. Find more missions that have contributed to our understanding of the solar system at: http://solarsystem.nasa.gov/50th/			