

Calendar July 2016 - June 2017

Educational Product

Educators & Students

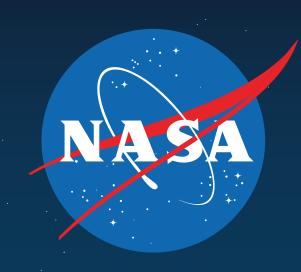
Grades K-6

NASA Science

Using the vantage point of space, NASA's Science Mission Directorate seeks to achieve (with the science community and our partners) a deep scientific understanding of our planet, other planets and solar system bodies, the interplanetary environment, the Sun and its effects on the solar system, and the universe beyond. In so doing, we lay the intellectual foundation for the robotic and human expeditions of the future while meeting today's needs for scientific information to address national concerns, such as climate change and space weather. At every step we share the journey of scientific exploration with the public and partner with others to substantially improve science, technology, engineering and mathematics (STEM) education nationwide.

Visit http://science.nasa.gov for the latest information on this quest.

Watch the NASA Science YouTube channel at https://www.youtube.com/user/ScienceAtNASA/



The moon phases in this calendar are given in UTC (Coordinated Universal Time).



NASA Space Place

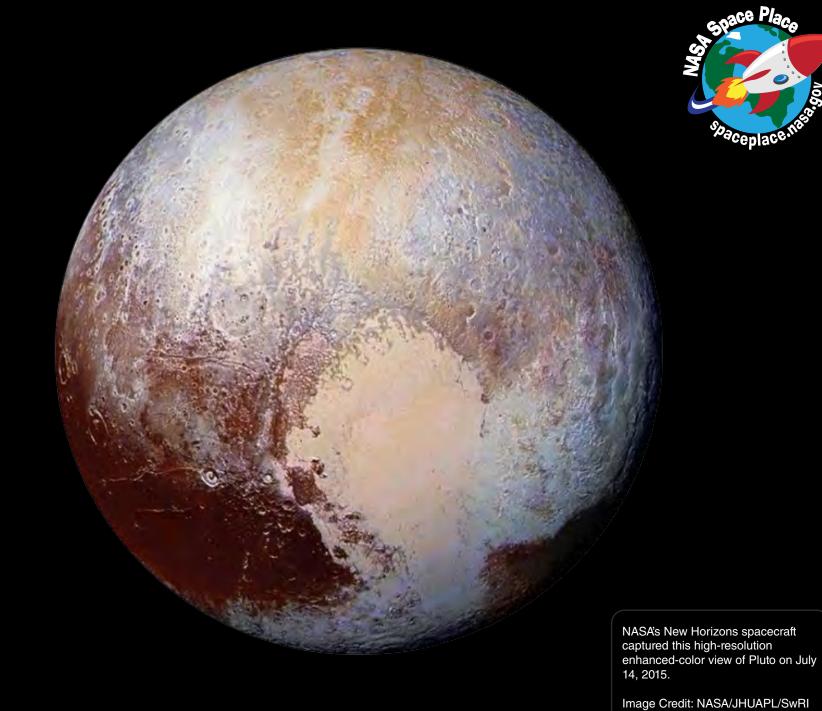
NASA's award-winning Space Place website engages upper-elementary-aged children in space and Earth science through interactive games, hands-on activities, fun articles, and short videos. With material in both English and Spanish and numerous resources for parents and teachers, Space Place has something for everyone. Learn about everything from black holes and wild space weather to the reasons for seasons here on Earth. NASA Space Place has material on space, the Sun, the Solar System, our own planet, and the science and technology that make discovery possible.

Visit NASA Space Place at http://spaceplace.nasa.gov

Keep up with what's new on our Space Place Facebook page at https://www.facebook.com/nasaspaceplace

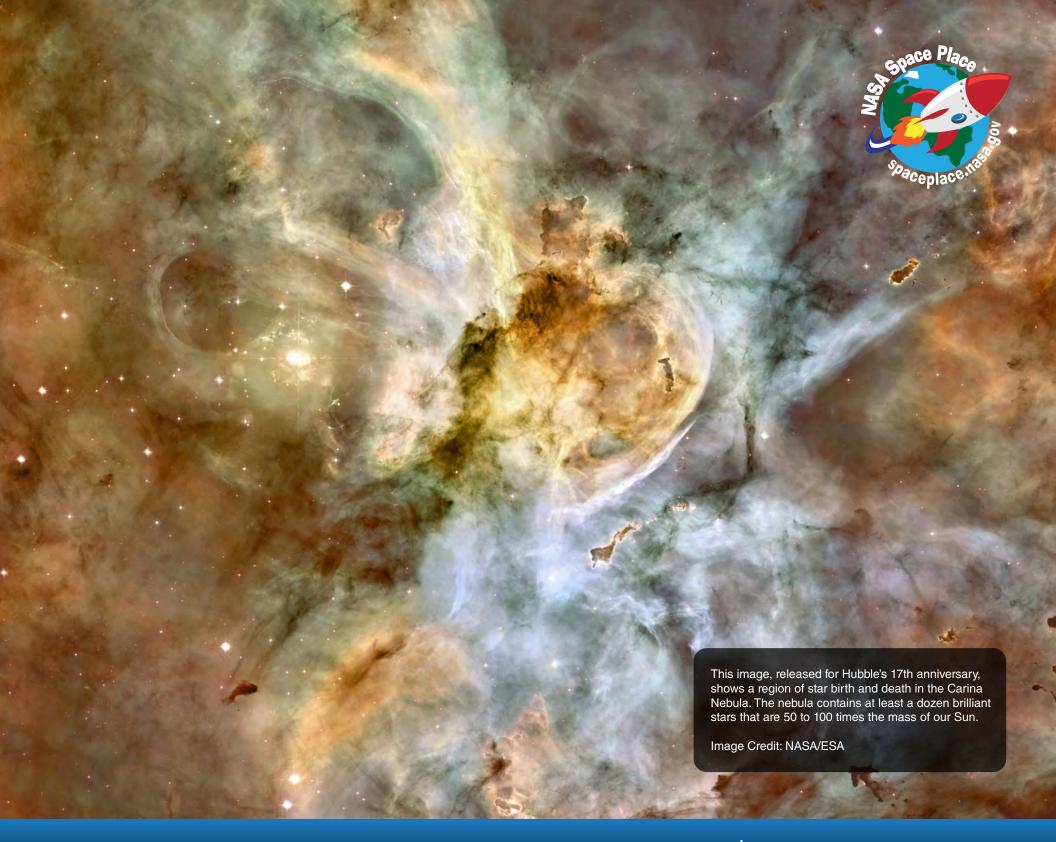
Follow us on Twitter: https://twitter.com/nasaspaceplace

See the Space Place YouTube channel at https://www.youtube.com/user/nasaspaceplace



JULY 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Anti-boredom Month. Fight boredom by playin games at Space Place. // menu/play				On this calendar Means spaceplace.nasa.gov/	First U.S. zoo opened in 1874 in Philadelphia, PA. Many zoos give homes to endangered species. How can satellites help these animals in the wild?	2
3	Earth at aphelion, the time of year when we are farthest from the Sun. Why isn't it cold if we are farthest from the sun? //> //> //> //> // // // // // // // /	5	6	7	8	Voyager 2 flew by Jupiter and discovered the Jovian moon Adrastea in 1979. Play "JunoQuest" and help unravel more Jupiter mysteries.
10	11 11	12 FIRST QUARTER	Galileo spacecraft dropped its probe into Jupiter's atmosphere this day in 1995. Read about Jupiter at	14	15 15	16 16
17	18	19 FULL MOON	Neil Armstrong was the first human to walk on the Moon this day in 1969. Why is the Moon so scarred with craters?	21	22	23
Apollo 15's Apollo 15's rover was the first vehicle driven on the Moon, 1971. See a picture of the lunar rover. // gallery-earth/#moon	25	26 LAST QUARTER	27	28	29	30
		NASA Space Place	can also be found at http://so	cience.nasa.gov/kids.		



AUGUST 2016

Monday

Sunday

Tuesday

spaceplace.nasa.gov

Friday

Saturday

Thursday

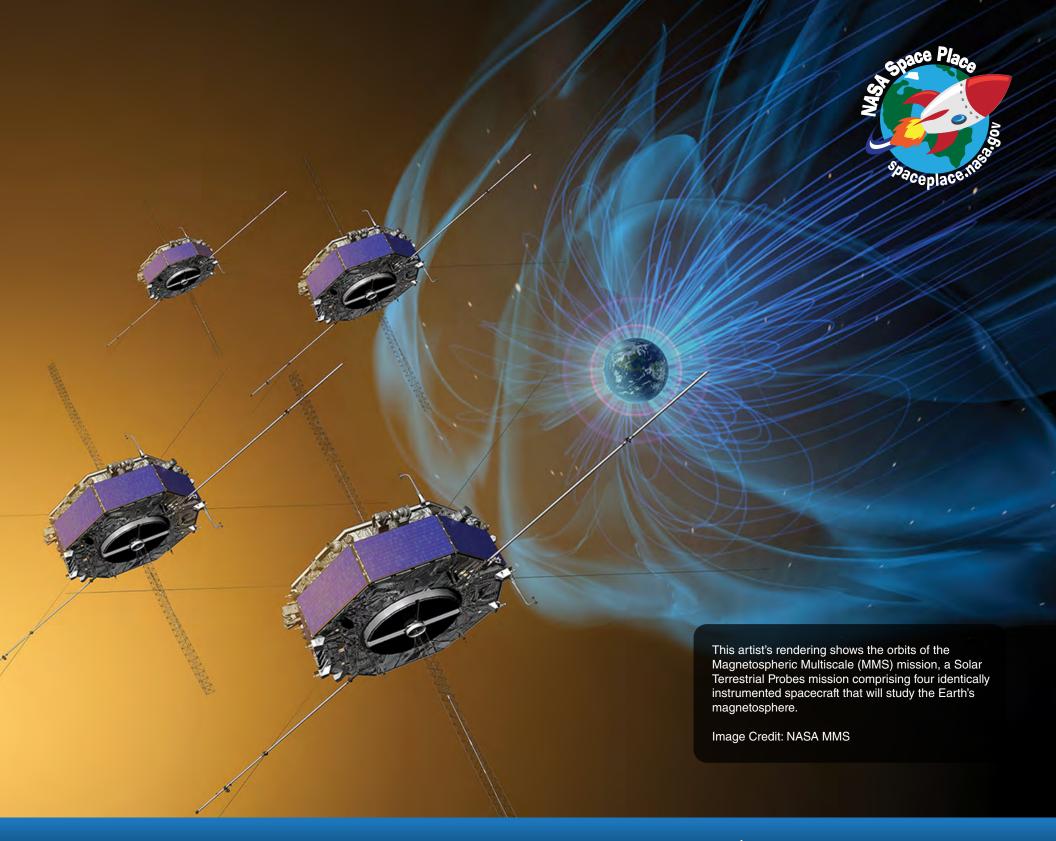
On this calendar	Joseph Priestley discovered oxygen in 1774. Oxygen is great to breathe. It also makes up part of greenhouse gas molecules! //gumdrops	2 NEW MOON	3	The U.S. Coast Guard's official history began in 1790. Play Wild Weather Adventure, and don't make the Coast Guard rescue you! // wild-weather-adventure	5	6
Friendship Day. Make sunspot cookies with a friend!	8	9	10 FIRST QUARTER	11	Perseids meteor shower at maximum. What causes a meteor shower?	13
14	National Relaxation Day. Lie under a tree and watch the pigeons fly by. Are they in a race home? Will they get lost? /pigeons	Tell A Joke Day. Make a robot puzzle, give it to friends, and test their sense of humor.	17	18 Coult MOON	National Aviation Day. Did you know some NASA missions use planes rather than rockets? // mission-chronicles/#hansen	20
21	22	23	24	Why does the Moon have phases at all? Get some Oreos and find out!	Voyager 2 flew by Saturn in 1981. Saturn has its very own page at // All-about-saturn/	Today, Venus and Jupiter will be very close together in the night sky. Discover why planets are round!
28	29	30	31			

Wednesday



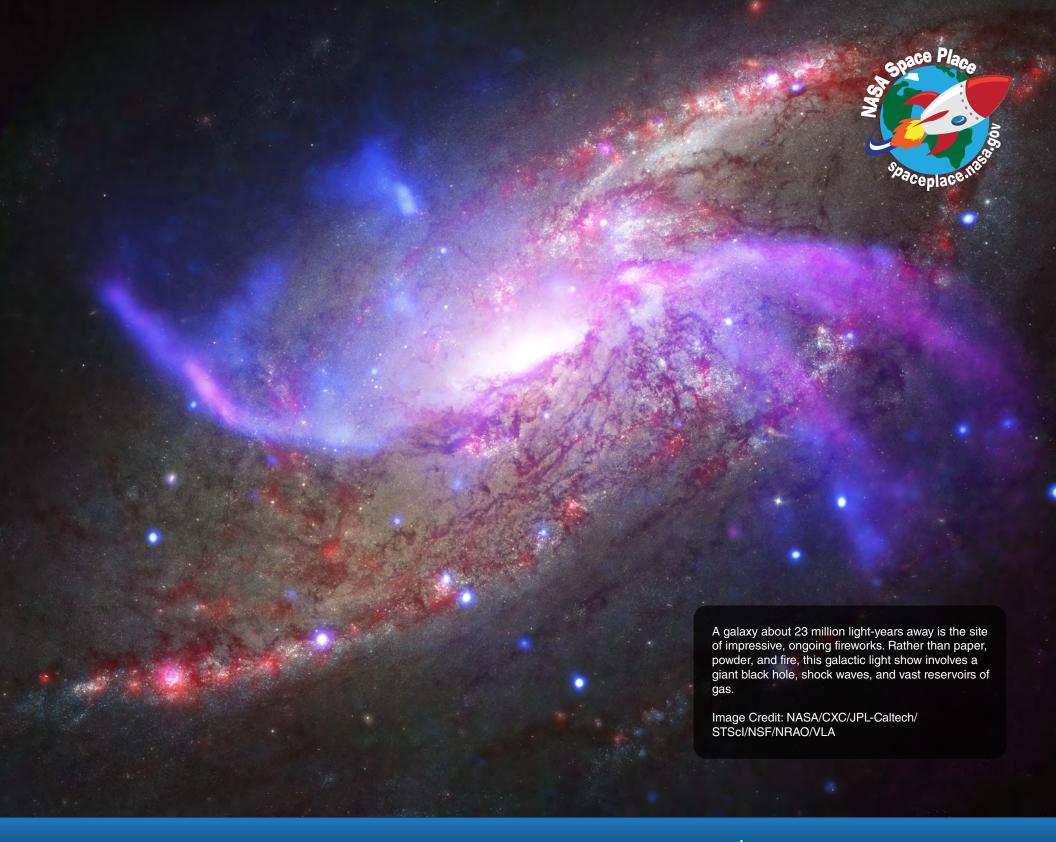
SEPTEMBER 2016





OCTOBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
National Energy Awareness Month. M the energy we use cre pollution and greenhoi gases. What are those //greenhouse	use			On this calendar		1 NEW MOON
2	NOAA founded in 1970. NOAA helps protect the environment and keeps an eye on the weather with its GOES satellites. Play Satellite Insight to see what we can learn from a NOAA satellite!	4	5	6	In 1959, Luna 3 took the first photo of the far side of the Moon. Why does the Moon look different throughout the month? // oreo-moon	8
9 FIRST QUARTER	10	11 11	12	National Train Your Brain Day. The "Ozone Trap-n-Zap" game will help!	National Dessert Day. Make yummy "El Niño Pudding" for dessert today.	15 15
Launch in 1975 of GOES-1, the first weather satellite to take pictures of Earth at night. Play a game about the newest GOES. // /satellite-insight	17 17	18	19	20	Orionids meteor shower at maximum. What causes a meteor shower? // meteor-shower	22 LAST QUARTER
23 NEW MOON 30	24 Halloween 31	²⁵ 25	26	27	International Animation Day. Check out our "snappy" animations about science. // menu-snap	29
		NASA Space Place	can also be found at http://s	cience.nasa.gov/kids.		



NOVEMBER 2016

Monday

Tuesday

Sunday

spaceplace.nasa.gov

Friday

Saturday

Thursday

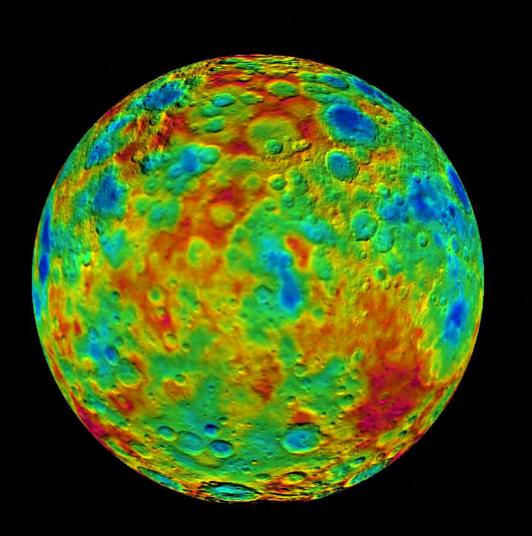
On this calendar		1	2	3	4	5
6 Daylight Saving Time ends	Marie Curie born in 1867. A physicist, she won a Nobel Prize for discovering two new elements. Find out about NASA women scientists.	X-rays were discovered in 1895. Play with x-rays in "Photon Pile-up!" // / photon-pileup	9	10	11 Veterans Day	12
13	14 FULL MOON	I Love to Write Day. Want to get started? Write your own zany adventure! //oopy-legends	16	Leonids meteor shower at maximum. What causes a meteor shower?	18	19
Edwin Hubble born in 1889. Hubble discovered galaxies and the expansion of the universe. We have a whole section about the universe! // menu/space/	21 LAST QUARTER	22	23	Thanksgiving Day. Did the pilgrims on the Mayflower navigate by the stars? With our starfinders, they could have.	²⁵ 25	26
27	28	29 NEW MOON	30		Try toge	dernational Creative sild and Adult Month, making a Cloud Mobile ether, / cloud-mobile

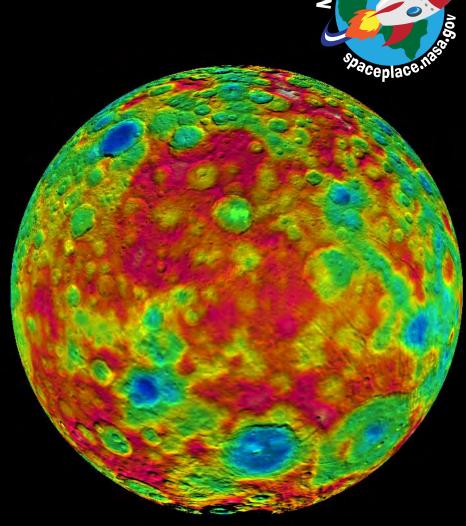
Wednesday



DECEMBER 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Read a New Book Mo If you haven't read it ye "Lucy's Planet Hunt" is real page turner. Sory-lucy	5l,	On this calendar		1	2	Pioneer 10 flew past Jupiter in 1973. Play "JunoQuest" to explore the mysteries of Jupiter!
4	5	6	The Galileo spacecraft became the first to orbit Jupiter in 1995. Read about Jupiter at // All-about-jupiter/	8	9	10
11	12	13	Geminids meteor shower at maximum early this morning. What causes a meteor shower?	15 15	16	First powered flight by the Wright Brothers in 1903. Did their invention just come out of the blue?
18	Apollo 17, the last of the Apollo moon landing missions, returned to Earth in 1972. Did they find water ice on the Moon?	20	Winter Solstice (first day of winter). What causes the seasons, anyway?	22	23	24
Christmas Day. If you get an iPad or iPhone for Christmas, we have some more gifts for you.	26	27	28	29 NEW MOON	30	31
		NASA Space Place	can also be found at http://sc	cience.nasa.gov/kids.		





This pair of images shows color-coded maps from NASA's Dawn mission, revealing the highs and lows of topography on the surface of dwarf planet Ceres.

JANUARY 2017

Monday

Tuesday

Sunday

spaceplace.nasa.gov

Friday

Saturday

Thursday

New Year's Day	2	Quadrantid meteor shower at maximum. What causes a meteor shower?	Earth at perihelion, the time of year when it is closest to the Sun. Just how close is Earth to the Sun right now?	5 FIRST QUARTER	6	Galileo first spots, in 1610, what became known as Jupiter's Galilean moons. How do these moons interact with each other and their massive parent?
Physicist Stephen W. Hawking born 1942. He writes about black holes. How does it "sound" when a big star is swallowed by a black hole? //igo-g-waves	9	10	11	12 FULL MOON	13	14
1515	16 Martin Luther King day	Ben Franklin's birthday, 1706. Ben played the violin. Perhaps he played one made during the "little ice age"?	18	19 LAST QUARTER	Penguin Awareness Day. Emperor penguins migrate each year to breed. What other animals migrate? //migration	21
22	23	24	2525	26	27	28 NEW MOON
National Puzzle Day. Unscramble beautiful "Earth-as-Art" puzzles. //spuzzled	30	31		On this calendar	National Thank You To thank your teach their wonderful wor them one of our do space and Earth po your posters	k, give

Wednesday



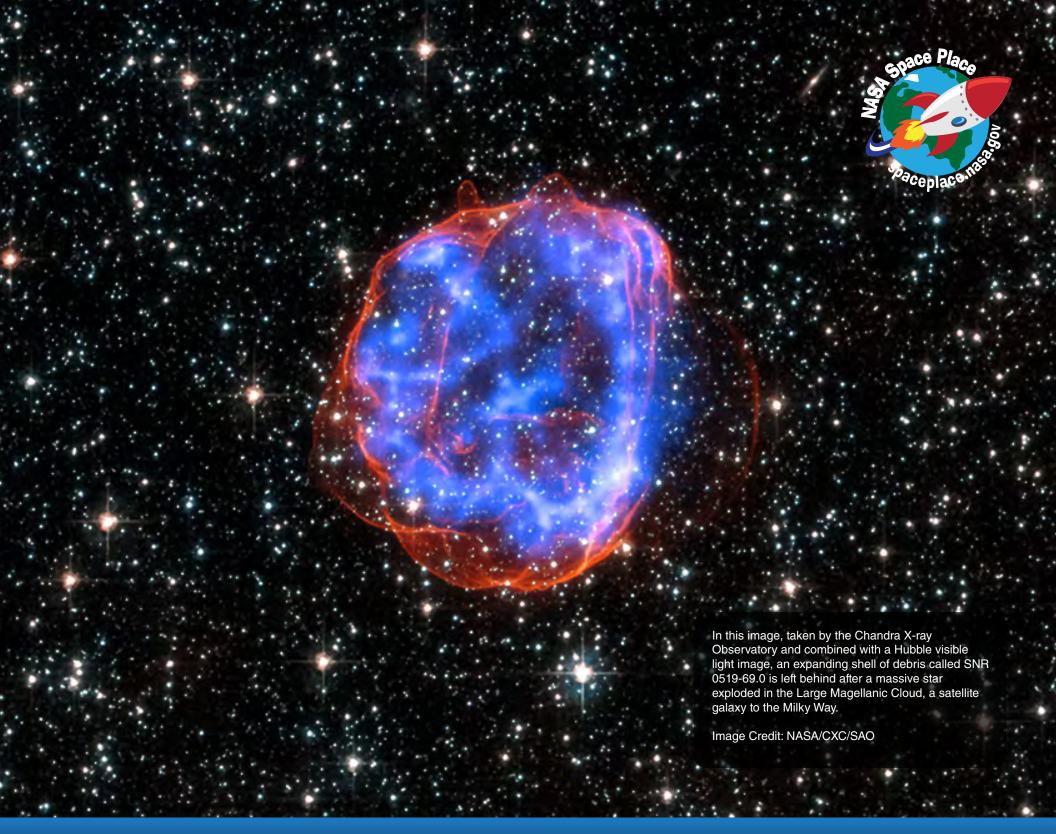
FEBRUARY 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Plant the Seeds of Greatness Month "Space Place Live interviews to find interviews to find place." / space-place	. Watch .!" out how! -live	On this calendar	1	Groundhog Day. The groundhog should consult the GOES satellites, not his shadow!	3	4 FIRST QUARTER
5	Apollo 14 astronauts played golf on the Moon in 1971. See astronauts at work and play. // gallery-technology/#astronauts	7	8	9	10	T1 FULL MOON
12	13	Valentine's Day. Print your own space valentines!	15 15	16	The Great Backyard Bird Count begins. Learn about how NASA keeps track of some birds using radar. // /birds	Clyde Tombaugh discovered Pluto in 1930. Learn more about Pluto, the strange King of the Ice Dwarfs. Order Tombaugh discovered Pluto in 1930. Learn more about Pluto, the strange King of the Ice Dwarfs.
19	Presidents' Day	International Mother Language Day. If yours is Spanish, we have a website just for you. //sp	22	23	24	2525
26 NEW MOON	NASA and JAXA launched the Global Precipitation Measurement satellite in 2014. How would you build your own satellite? // build-a-spacecraft	28				



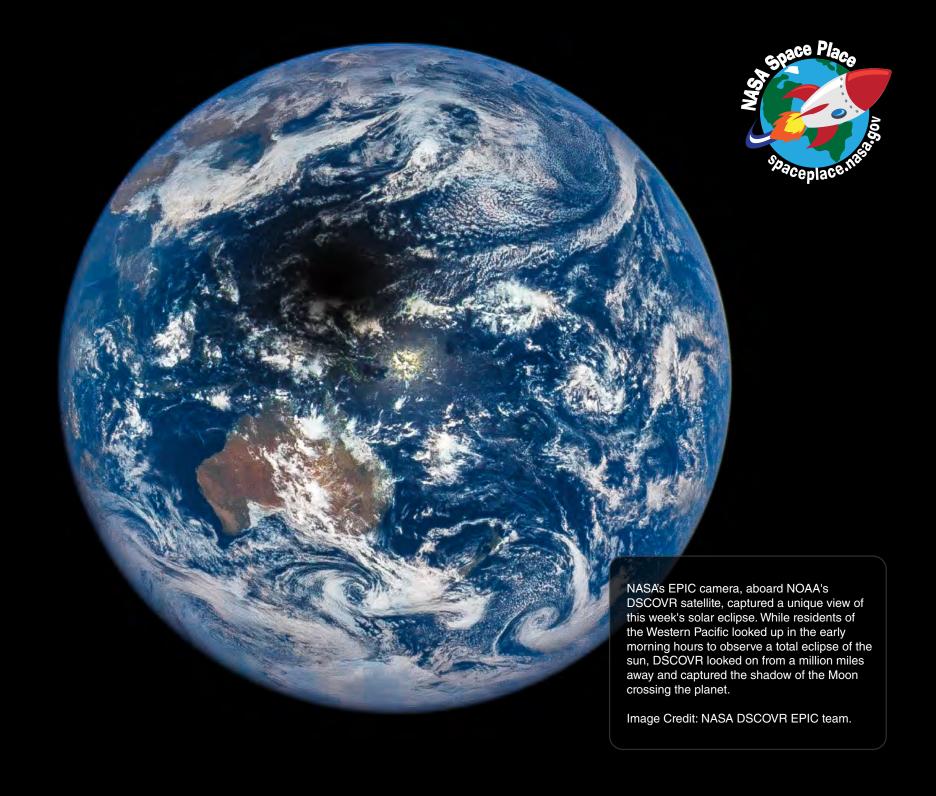
MARCH 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
International Liste Awareness Month Listening makes th a better place. Pravour podcasts. //podcasts	ning le world ctice with	On this calendar	1	Dr. Seuss was born this day in 1904. If you like Dr. Seuss stories, you might like "Ode to Aerogel."	3	4
5 FIRST QUARTER	6	7	8	9	First telephone call, 1876. How do we talk to spacecraft way out in space? /x-ponder	11 11
Daylight Saving Time begins	13	Pi Day. What would pi be in binary numbers?	15 15	16	St. Patrick's Day. Leprechauns are Irish folklore fairies in green. If we met green beings in space, what would we tell them about Earth? //voyager-to-stars	18 18
19	World Storytelling Day. Create your own zany story to tell today! //loopy-legends Vernal Equinox (Spring begins)	21	International Goof-off Day. Download our Space Place games for your iPhone and iPad! You might learn something while goofing off!	23	24	25 25
26	27	28 NEW MOON	29	30	31	



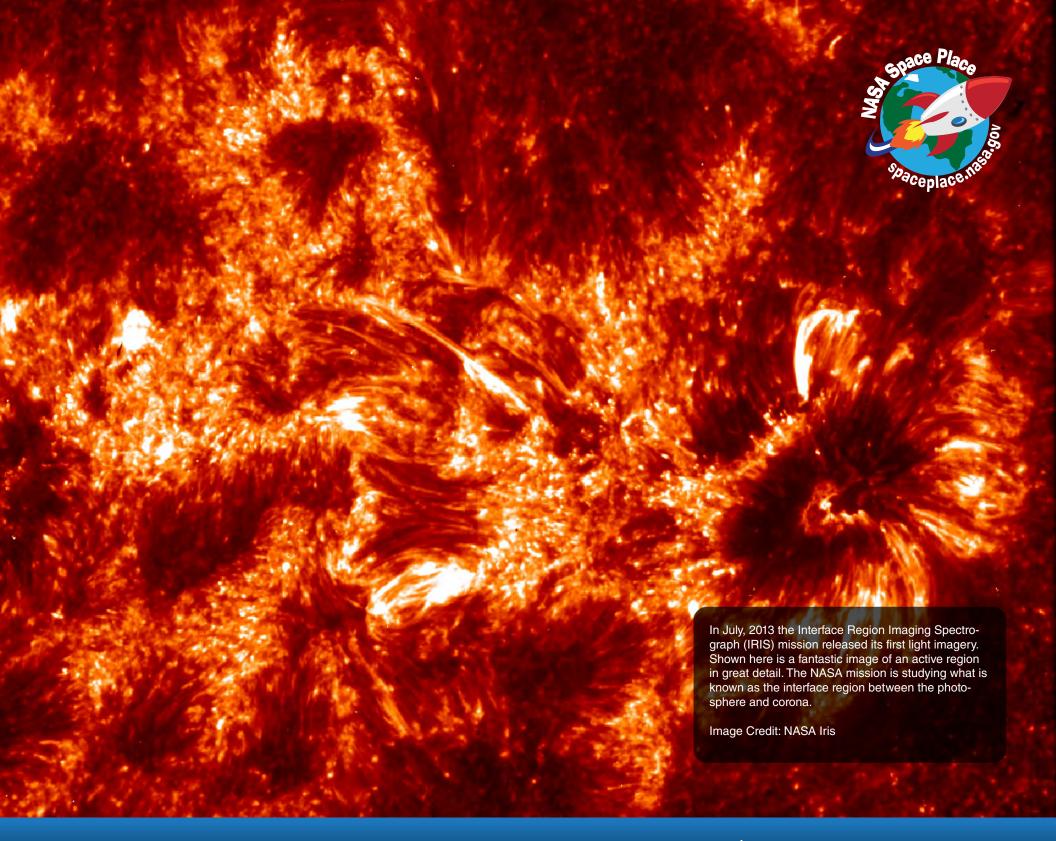
APRIL 2017





MAY 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
On this calendar	1	National Teacher Appreciation Day. Check out our fun classroom activities, articles, and images on our Parents & Educators page! //menu/ parents-and-educators	3 FIRST QUARTER	National Weather Observers Day. To celebrate, go on a "Wild Weather Adventure!"	National Space Day. Build a cool model of a spacecraft such as the Hubble Space Telescope. // build-a-spacecraft	6
7	8	9	10 FULL MOON	11 11	12	13
14 Mother's Day	National Chocolate Chip Day. Celebrate by making our yummy sunspot cookies with chocolate chips! Sunspot-cookies	16	Pack Rat Day. You may be a pack rat on Earth, but you'd have to change your ways if you took a trip to Mars! //classroom-activities/#marspacking	18	19 LAST QUARTER	20
21	22	In 1785, Benjamin Franklin announced his invention of bifocals. Why do we even need two eyes?	24	In 1961, President Kennedy announced that the U.S. will land a person on the Moon by the end of the decade. Build your own "Moon Habitat."	Happy Birthday to Dr. Sally Ride (1951), the first American woman in space. Learn more about other NASA women! **/space-place-live	27
28	29 Memorial Day	30	31		thes deve prog	ional Inventors Month ts, bottles and braces — e inventions were originally eloped for the space ram! prinoffs
		NASA Space Place	can also be found at http://sc	sience nasa gov/kids		



JUNE 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
National Zoo and Aq Month. Maybe you wi some endangered sp like these:		On this calendar		1 FIRST QUARTER	2	3
4	5	6	7	World Oceans Day. Explore ocean currents and play "Go With the Flow."	9 FULL MOON	10
11 11	12	13	14	Saturn will be at its closest approach to Earth. Check out Saturn's very own Space Place page!	The first roller coaster opened in 1884. How does a roller coaster work? Build a "Newtonian Physics Machine" and find out.	17 LAST QUARTER
Father's Day. Play the "Helios" game with Dad. // helios-game	19	20	Summer Solstice (first day of summer). What causes Earth to have seasons?	22	23	24 ONEW MOON
2525	26	27	28	29	30	

