



A spacecraft orbiting the planet Mercury sent back this amazing image. NASA's Planetary Division wants to find out what our solar system contains, how it all began, how it has changed, and whether there might be life on other planets or moons. Explore Mercury and the other planets at [spaceplace.nasa.gov/story-planet-awards](http://spaceplace.nasa.gov/story-planet-awards).



# NOVEMBER 2012

[spaceplace.nasa.gov](http://spaceplace.nasa.gov)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>International Creative Child and Adult Month. Try making a Cloud Mobile together.</p>				1	2	3
4	5	6	7 	8	9	10
<p>Daylight Saving Time Ends. How did clocks, hours, minutes, and timekeeping in general ever get started?</p>	<p>Gunpowder Day. How much "virtual gunpowder" would it take to shoot a cannonball into orbit?</p>			<p>X-rays were discovered in 1895. X-ray is one kind of photon you will play with in "Photon Pile-up."</p>	<p>National Young Readers Day. Read and listen to some of Dr. Marc's answers to great questions about space.</p>	
11	12	13 	14	15	16	17
<p>Veterans Day</p>	<p>First piloted helium balloon crosses the Pacific in 1981. Although a very impressive feat, some migrating birds fly even farther!</p>		<p>I Love to Write Day. How about trying a cosmic poem?</p>	<p>First computer microprocessor invented in 1971. Find out how humans talk to machines.</p>		
18	19	20 	21	22	23	24
	<p>Have a Bad Day Day. One way to have a bad day is to tour the solar system looking for a better climate than here.</p>		<p>National Game and Puzzle Week. You will find lots of games and puzzles at The Space Place.</p>	<p>Thanksgiving Day. Do you think the pilgrims on the Mayflower could have navigated by the stars? If they'd had our Starfinders, they could.</p>		
25	26	27	28 	29	30	

- Month of November: [spaceplace.nasa.gov/cloud-mobile](http://spaceplace.nasa.gov/cloud-mobile)
- Nov. 3: [spaceplace.nasa.gov/tortilla-spacecraft](http://spaceplace.nasa.gov/tortilla-spacecraft)
- Nov. 4: [spaceplace.nasa.gov/classroom-activities/#time](http://spaceplace.nasa.gov/classroom-activities/#time)
- Nov. 5: [spaceplace.nasa.gov/how-orbits-work](http://spaceplace.nasa.gov/how-orbits-work)
- Nov. 8: [spaceplace.nasa.gov/photon-pileup](http://spaceplace.nasa.gov/photon-pileup)
- Nov. 9: [spaceplace.nasa.gov/menu/dr-marc](http://spaceplace.nasa.gov/menu/dr-marc)

- Nov. 12: [spaceplace.nasa.gov/migration](http://spaceplace.nasa.gov/migration)
- Nov. 14: [spaceplace.nasa.gov/art](http://spaceplace.nasa.gov/art)
- Nov. 15: [spaceplace.nasa.gov/binary-code3](http://spaceplace.nasa.gov/binary-code3)
- Nov. 19: [spaceplace.nasa.gov/planet-weather](http://spaceplace.nasa.gov/planet-weather)
- Nov. 21: [spaceplace.nasa.gov/menu/play](http://spaceplace.nasa.gov/menu/play)
- Nov. 22: [spaceplace.nasa.gov/starfinder](http://spaceplace.nasa.gov/starfinder)