



Credit: NASA/JPL-Caltech/USGS/Cornell University



Is this a face on Mars? It was not a face until Mars rover Spirit used its rock abrasion tool that happened to create the "eyes." This image was made on February 26, 2006, on Spirit's 746th Martian day on Mars. What kind of weather will this "Martian" have to endure? Find out at [spaceplace.nasa.gov/planet-weather](http://spaceplace.nasa.gov/planet-weather).

# DECEMBER 2013

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>1</p> <p><b>On this calendar</b> .../ <b>means</b> <a href="http://spaceplace.nasa.gov/">spaceplace.nasa.gov/</a></p>	<p>2</p> <p> NEW MOON</p>	<p>3</p>	<p>4</p> <p><b>Pioneer 10 flew past Jupiter in 1973.</b> Play "JunoQuest," about a new mission to Jupiter. <a href="http://spaceplace.nasa.gov/junoquest">spaceplace.nasa.gov/junoquest</a></p>	<p>5</p>	<p>6</p>	<p>7</p> <p><b>Galileo spacecraft</b>, in 1995, became first to orbit an outer planet (Jupiter). Learn more about Dr. Marc's favorite planet. .../<a href="http://dr-marc-solar-system">dr-marc-solar-system</a></p>
<p>8</p>	<p>9</p> <p> FIRST QUARTER</p>	<p>10</p>	<p>11</p> <p>First recorded sighting of <b>Aurora Borealis</b>, from New England in 1719. Then there was the strange night in 1859! .../<a href="http://shields-up">shields-up</a></p>	<p>12</p> <p><b>Radio signals</b> first transmitted across the Atlantic, 1901. How do radio waves carry messages? .../<a href="http://classroom-activities/#phases">classroom-activities/#phases</a></p>	<p>13</p>	<p>14</p> <p><b>Geminids meteor shower</b> at maximum early this morning. What causes a meteor shower? .../<a href="http://meteor-shower">meteor-shower</a></p>
<p>15</p>	<p>16</p>	<p>17</p> <p> FULL MOON</p> <p><b>First powered flight by the Wright Brothers in 1903.</b> Did their invention just come out of the blue? .../<a href="http://classroom-activities/#history">classroom-activities/#history</a></p>	<p>18</p>	<p>19</p> <p><b>Apollo 17</b>, the last of the Apollo Moon landing missions, returned to Earth, 1972. Did they find water ice on the Moon? .../<a href="http://i-see-ice">i-see-ice</a></p>	<p>20</p>	<p>21</p> <p><b>Winter Solstice (first day of winter).</b> What causes the seasons, anyway? .../<a href="http://seasons">seasons</a></p>
<p>22</p>	<p>23</p>	<p>24</p>	<p>25</p> <p> LAST QUARTER</p> <p><b>Christmas Day.</b> If you get an iPad or iPhone for Christmas, we have some more gifts for you. .../<a href="http://ios">ios</a></p>	<p>26</p> <p><i>Time</i> magazine named <b>Albert Einstein "Person of the Century,"</b> 1999. Einstein's theories predict gravitational waves. Huh? .../<a href="http://ligo-g-waves">ligo-g-waves</a></p>	<p>27</p> <p><b>No Interruptions Day.</b> A time to reflect and prepare for a new year. Listen to Dr. Marc's reflections on many things. .../<a href="http://menu/dr-marc">menu/dr-marc</a></p>	<p>28</p>
<p>29</p>	<p>30</p>	<p>31</p>	<p>Read a <b>New Book Month.</b> If you haven't read it yet, "Lucy's Planet Hunt" is a real page turner. .../<a href="http://story-lucy">story-lucy</a></p>			