





# STEM Monthly Calendar

October 15 – November 30





Cybersecurity Awareness and American Indian Heritage Month

	Monday	Tuesday	Wednesday	Thursday	Friday
Science	<p>October 17</p> <p>In 1989, A 6.9 magnitude earthquake struck San Francisco. Earthquakes occur when two blocks of earth slip past each other. The surface where they slip is called the fault.</p>	<p>October 18</p> <p><b>Keren Elazari</b> began her career as a hacker and is now a cybersecurity expert. Her TED Talk has helped shape the global discussion about how hackers can play an important role in protecting society from cyber-attacks.</p> 	<p>October 19</p> <p>In 1953 the first wind turbine to use generate electricity for local utility system was put into service in Grandpa’s Knob, VT.</p>	<p>October 20</p> <p><b>Robert M. Lee</b> was a Cyber Warfare Officer in the U.S. Air Force before becoming the Founder and CEO of Dragos- a cybersecurity company. One recent project was to figure out the cause of the Ivano-Frankivsk power grid attack in the Ukraine. The attack caused 225,000 people to lose power in December 2015.</p> 	<p>October 21</p> <p>In 1879 Thomas Edison demonstrated an electric light bulb that lasted for 13.5 hours.</p>
	Technology	<p>October 24</p> <p>In October of 2011 the voice-activated personal assistant Siri was introduced by Apple.</p>	<p>October 25</p>  <p><b>Chris Domas</b> is a cyber-security researcher and embedded systems engineer who specializes in reverse-engineering and visual abstraction in order to combat cyber-warfare.</p>	<p>October 26</p> <p>1861: The Pony Express ended operations. It was put out of business because the first transcontinental continental telegraph line in the United States opened 2 days early and it allowed for instant communication.</p>	<p>October 27</p>  <p><b>Lorrie Faith Cranor</b> began her research on password security as an Associate Professor at Carnegie Mellon University. In 2016, Cranor was appointed as the Chief Technologist for the U.S. Federal Trade Commission.</p>

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Engineering	<p>October 31</p> <p>Computer Worms vs Viruses</p> <p>Worms are stand-alone software while viruses require a host program/file. Both wreak havoc on the computers.</p>	<p>November 1</p> <p><b>Susan La Flesche Picotte</b> (1865-1915), was the first Native American female doctor and gave back to her nation by building a hospital for the Omaha Nation.</p> 	<p>November 2</p> <p>1988: The cybersecurity industry began when the first computer worm caused extensive damage. It was designed to infect systems in order to count them.</p>	<p>November 3</p> <p><b>Thomas David Petite</b> of the Chippewa Nation holds 35 patents and is a renowned inventor in the area of energy conservation and technology. He developed the wireless mesh grid which led to the Smart grid that allows you remotely operate and monitor your energy usage from your mobile device.</p> 	<p>November 4</p> <p>1983: First computer virus was released by Fred Cohen on a Lehigh University computer system. The virus was able to install itself (infect) the system and others systems that were attached to Lehigh's system. A year later he coined the phrase "computer virus".</p>
	Mathematics	<p>November 7</p> <p>1660: Thomas de Lagny, who computed pi to 120 digits was born.</p> <p><b>Pi:</b> 3. 1415926535 8979323846 2643383279 5028841971 6939937510 5820974944 5923078164 0628620899 8628034825 3421170679 8214808651 3282306647</p>	<p>November 8</p> <p>1952: For the first time, major television networks used computers to predict the outcome of the presidential election between Dwight D. Eisenhower and Adlai E. Stevenson.</p> 	<p>November 9</p> <p>On November 8, 1656 Edmond Halley was born. Halley used Newton's laws of gravity to calculate the orbit of comets based on the gravitational pull of Jupiter and Saturn.</p>	<p>November 10</p> <p><b>Mary Ross</b> (1908-2008) from the Cherokee nation was the first female engineer at Lockheed Martin. She worked on the U.S. race to the moon/NASA program and development of the Agena rocket.</p> 

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Science	November 14	November 15	November 16	November 17	November 18
	1985: <u>Nature</u> magazine published the discovery of fullerene; a hollow, spherical molecule of carbon.	On November 14, 2014, President Obama made a Presidential Proclamation that November 15 is National America Recycles Day 	1942: Work to create an artificial nuclear chain reaction began. The experiment was designed to support the Manhattan Project.	<b>Ely Parker</b> (1828-1895) of the Iroquois Nation was an engineer with the Treasury Department. He was also with general Grant when Robert E. Lee surrendered at Appomattox. 	1883: Standard time in the U.S. went into effect in order to allow railroad travel to be synchronized. Before this, time was based on local “sun” time.
Technology	November 21	November 22	November 23	November 24	November 25
	1877: The invention of the “talking machine” better known as the phonograph was announced by Thomas Edison.	<b>John Herrington</b> (1958-) of the Chickasaw Nation of Oklahoma was the first Native American in space. He flew International Space Station on STS-113 <i>Endavour</i> . Herrington logged over 330 hours in space including 3 “spacewalks”. 	1992: The first “smartphone” was released by IBM. Known as IBM Simon it was a personal digital assistant –PDA that made and received calls, faxes and emails. It even had a touch screen!	<b>Sandra Begay-Campbell</b> from the Navajo Nation is an engineer who works on photovoltaics at Sandia National Lab in New Mexico. She also works to bring solar energy to remote Navajo villages. 	1973: In order to conserve energy during the oil embargo, the U.S. speed limit was decreased to 55 mph.
Engineering	November 28	November 29	November 30		
	1964: NASA launched Mariner 4 to conduct a flyby of Mars. Mariner 4 reached Mars and began sending back data on July 14, 1965	<b>Al Qöyawayma</b> is an artist, potter and engineer who holds a worldwide patent for Inertial Guidance System used on international and jet fighter aircrafts. 	1934: The Flying Scotsman was the first steam locomotive to exceed 100 mph.		