



STEM Detective Lab's

Fall 2024 - 2025 16 Month Calendar








Filled With 16 Months of STEM/STEAM

Events & Activities



# September 2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
 <p><b>#WorldKidLitMonth</b> was started through social media in 2016 to celebrate world literature translated from other languages.  <b>Challenge:</b> Put a <b>STEM</b> spin on #WorldKidLitMonth and help your kids find STEM themed books published globally.</p> 							
1	2	 New Moon	3	4	5	6	7
#WorldKidLitMonth	Labor Day		National Wildlife Day				
8	9	10	 First Quarter	11	12	13	14
National Arts in Edu. Week					Programmer's Day		
15	16	17	 Full Moon	18	19	20	21
							Intl. Red Panda Day
22	23	 Last Quarter	24	25	26	27	28
First Day of Fall	Intl. Day of Sign Language		Math Storytelling Day	Ntl. Shamu the Whale Day	Save the Koala Day		
29	30	<b>National Fall Foliage Week</b> starts on the last Sunday of September, making this an ideal time to take your kids on a nature hike. <b>STEM Activity:</b> Collect a variety of colored leaves, research how leaves change colors with your kids, then help them create leaf animals as an art project.					
National Fall Foliage Week							

# October 2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
<p>October is a busy month when it comes to <b>wildlife awareness issues</b>.</p> <p><b>Challenge:</b> Make a list of live animal webcams from around the world, then help your kids create a research journal on one of the animals from the list.</p>					<p><b>National Train Your Brain Day</b> on Oct. 13<sup>th</sup> is the perfect day to challenge your kids with some puzzles, logic style games, or even riddles.</p> <p><b>Activity:</b> Start each day this week with a <b>Train Your Brain</b> activity and see how the rest of the day goes. Looking for ideas? <b>Tangrams</b> is always a hit!</p>		
<p>Raptor Month Bat Appreciation Month Squirrel Awareness Month Right Brainers Rule Month</p>		1	New Moon	2	3	4	5
		Intl. Raccoon Appreciation Day			National Techies Day	World Animal Day	
6	7	8	9	First Quarter	10	11	12
National Metric Week		World Octopus Day		National Metric Day			
13	14	15	16	Full Moon	17	18	19
Natl. Train Your Brain Day		Columbus Day & Indigenous Peoples' Day					
20	21	22	23	Last Quarter	24	25	26
International Sloth Day	Ntl. Reptile Awareness Day		Intl. Snow Leopard Day				World Lemur Day
27	28	29	30	31	<p>The internet is full of fun sloth activities and crafts.</p>		
Intl. Animation Day				Halloween			

# November 2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				Aviation History Month National Family Literacy Month	New Moon 1 Prime Meridian Day	2 National Bison & World Numbat Day
3 Daylight Saving Time Ends	4	5	6	7	8 National STEM/STEAM Day	9 First Quarter
10	11 Natl. Young Readers Week & International Origami Day Veterans Day	12	13	14	15 Full Moon	16
17	18 Geography Awareness Week	19	20	21	22	23 Last Quarter Fibonacci Day
24	25	26	27	28 Red Planet Day Thanksgiving	29	30










**National STEM/STEAM Day** on Nov. 8<sup>th</sup> is a great day to encourage your kids to take a more in depth look at their interests in the STEM/STEAM fields.

**Challenge:** Combine **National STEM/STEAM Day** with **International Origami Day** on Nov. 11<sup>th</sup> to expose your kids to the mathematical concepts, structural design, and engineering skills involved with the art of paper folding.









# December 2024



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 <p>The <b>Hour of Code</b> takes place every year during <b>Computer Science Education Week</b> (Starts Dec. 4<sup>th</sup> this year). Millions of students around the world participate in this event, making it the largest learning event in history.</p> <p><b>Challenge:</b> Use <b>Scratch</b>, a block-based visual programming language, to introduce your kids to computer programming. If your kids are already programming wizards, now may be the time to introduce them to the world of robotics. Programming robots is fun at any level.</p>						
 New Moon 1	2	3	4	5	6	7
Antarctica Day			National Dice Day & World Wildlife Conserv. Day	World Soil Day		
 First Quarter 8	9	10	11	12	13	14
Pretend to be a Time Traveler Day	CSEdu Week & The Hour of Code	Dewey Decimal System Day				Monkey Day Christmas Bird Count (12/14 - 1/05)
 Full Moon 15	16	17	18	19	20	21
		Wright Brothers Day				First Day of Winter
 Last Quarter 22	23	24	25	26	27	28
		Christmas Eve	Christmas Day			
29	 New Moon 30	31		Celebrate <b>National Dice Day</b> on Dec. 4 <sup>th</sup> with your kids by introducing them to math related dice games. Whether you choose to play a game that already exists, or you make one up for your particular needs, dice games are fun for all ages.		
		New Year's Eve				

# January 2025




Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 Celebrate <b>National Science Fiction Day</b> on January 2 by watching a science fiction movie that has a robot character or two, then help your kids use their own robots for some fun STEM activities.			1 New Year's Day	2 Natl. Science Fiction Day	3	4 Isaac Newton's Birthday
5 National Bird Day	 First Quarter 6	7	8 Earth's Rotation Day & Stephen Hawkin's Birthday	9 Natl. Static Electricity Day	10	11
12  Full Moon	13	14	15	16	17	18
19 Martin Luther King Jr. Day	20	 Last Quarter 21	22	23	24	25
26	27	28	 New Moon 29 International Puzzle Day Lunar New Year	30	31	
			<p><b>Sir Isaac Newton</b>, one of the most prominent scientists in history, was a physicist, astronomer, theologian, and author.</p> <p><b>Cool trivia:</b> Newton's Cradle, a popular desktop toy in the 1970's, demonstrates the Conservation of Energy &amp; Motion and Newton's Laws of Motion.</p>			

# February 2025

**National Periodic Table Day** on Feb. 7<sup>th</sup> commemorates the publication of the first periodic table by John Newlands in 1863.



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<b>Black History Month</b> Celebrate <b>Black History Month</b> with a look at famous Black scientists and how their work would fit in today's STEM/STEAM disciplines.					1
2  Groundhog Day	3	4	 First Quarter 5	6	7	8
9	10	11 <b>National Inventors' Day &amp; Intl. Day of Women and Girls in Science</b>	 Full Moon 12	13	14 <b>National Periodic Table Day</b>  <b>Great Backyard Bird Count (2/14 – 2/17)</b> Valentine's Day	15
16 <b>National Engineers Week (2/16 – 2/22)</b>	17 Presidents' Day	18	19	 Last Quarter 20	21	22
23  <b>Ntnl. Invasive Species Awareness Week (2/24 – 2/28)</b>	24	25	26	27	 New Moon 28	

In 2015, the United Nations General Assembly declared February 11<sup>th</sup> to be the **International Day of Women and Girls in Science**. Marie Curie, the only woman to win a Nobel Prize in the field of science, is well-known, but what about **Katherine Johnson**? A quick Google search on famous women in STEM fields will reveal that women are major contributors to STEM fields.

Every February since 1998, bird lovers of all ages have been able to participate in the **Great Backyard Bird Count** - a massive 4-day citizen-science project sponsored by the Cornell Lab of Ornithology and the National Audubon Society.

**Activity:** Check out our **Build a Better Bird Nest STEM Investigation** post for additional information and our Build a Better Bird Nest STEM project.

# March 2025









Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
<p><b>Note:</b> Pi Day is celebrated on 3/14 since those are the first three digits of the mathematical constant Pi, which is the ratio of a circumference to its diameter.</p> <p><b>Challenge:</b> What type of Pi themed activities can you do with your kids?</p>				<p><i>Oh, the Things You Can Think!</i> – What better book to read on <b>Dr. Seuss Day</b> (Mar. 2<sup>nd</sup>) than one that encourages thinking. What STEM ideas can your students think up?</p>		1	
2  <b>Dr. Seuss Day</b>	3  <b>World Wildlife Day</b>	4	5	First Quarter	6	7	8
9  Daylight Saving Time Begins	10	11	12  <b>Natl. Plant a Flower Day</b>	13	Full Moon	14  <b>National Pi Day &amp; Natl. Children's Craft Day</b>	15
16	17  St. Patrick's Day	18  <b>National 3-D Day</b>	19  <b>National Backyard Day</b>	20  First Day of Spring	21	Last Quarter	22  <b>Earth Hour</b>
23  <b>World Meteorological Day</b>	24	25	26	27	28	New Moon	29  <b>NanoDays Starts Today</b>
30  <b>National Take a Walk in the Park Day</b>	31			<p><b>NanoDays</b> is a nationwide event running from the last weekend in March through the first weekend in April that highlights nanoscale science and engineering.</p> <p><b>Challenge:</b> See if there's a science museum near you that is offering any NanoDays events.</p>			



# April 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				 <p>Started in 2010, <b>National Robotics Week</b> has a mission to inspire students of all ages in robotics and other STEM related fields.</p>		
	<b>Mathematics and Statistics Awareness Month</b>	1 April Fools' Day	2	3	4 <b>National Wildlife Week (4/05 – 5/09)</b>	 First Quarter 5 <b>National Robotics Week (4/05 – 4/13)</b>
6 <b>Geologists Day</b>	7	8 <b>National Zoo Lovers Day</b>	9	10 <b>National Encourage a Young Writer Day</b>	11	12 <b>International Day for Human Space Flight</b>
 Full Moon 13	14 <b>National Dolphin Day</b>	15 <b>World Creativity &amp; Innovation Week (4/15 – 4/21)</b>	16	17 <b>International Bat Appreciation Day</b>	18	19
20	 Last Quarter 21 <b>World Creativity &amp; Innovation Day</b>	22 <b>Intl. Mother Earth Day</b>	23 <b>World Laboratory Day</b>	24	25 <b>National DNA Day &amp; World Penguin Day</b>	26 <b>World Veterinary Day &amp; National Richter Scale Day</b>
 New Moon 27	28	29	30	Looking for a STEM project for National Wildlife Week? Our <b>DIY Borax Crystal Critters Mystery</b> combines crystal making and backyard critters into one fun activity. 		

# May 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			National Inventors Month	1	2 National Space Day	3
First Quarter 4 National Star Wars Day & National Wildflower Week	5 National Astronaut Day	6	7	8	9	10 Natl. Miniature Golf Day & World Migratory Bird Day
11 Mother's Day	Full Moon 12	13	14	15	16 Natl. Endangered Species Day	17
18 International Museum Day	19	Last Quarter 20 World Bee Day & World Metrology Day	21	22	23 World Turtle Day	24 Natl. Scavenger Hunt Day
25	26 Natl. Paper Airplane Day Memorial Day	New Moon 27	28	29	30 National Creativity Day	31 World Parrot Day

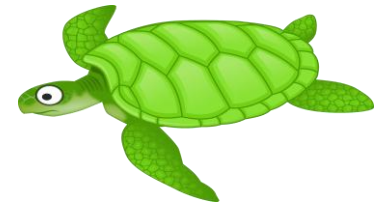
Use **National Endangered Species Day** on May 16<sup>th</sup> to introduce your kids to the plight of thousands of animals on the endangered list.

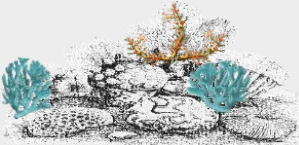




**Challenge:** Divide your kids into groups, assign each group an animal to research, then ask each group to develop a plan to save their animal.

Help your kids celebrate **National Paper Airplane Day** (May 26<sup>th</sup>) with a quick lesson in aerodynamics, followed by a **Build Your Own Paper Airplane** activity.

There are four aerodynamic forces involved during a paper plane flight - **thrust, aerodynamic lift, gravity, and air drag.**

# June 2025

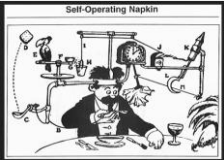







Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>Are your students learning about oceans this month? If so, use <b>World Reef Awareness Day</b> to help your students discover just how delicate an ocean's coral reef ecosystem is.</p> 					<p>National Great Outdoors Month National Zoo and Aquarium Month National Pollinators Month</p>	
1	2	 First Quarter	3	4	5	6
World Reef Awareness Day				World Environment Day		National Trails, Prairie & Black Bear Day
8	9	10	 Full Moon	11	12	13
World Oceans Day	Coral Triangle Day					
15	16	17	 Last Quarter	18	19	20
Global Wind Day Father's Day	World Sea Turtle Day	World Crocodile Day			Juneteenth	World Giraffe Day & World Hydrography Day First Day of Summer
22	23	24	 New Moon	25	26	27
World Rainforest Day	International Women in Engineering Day					
29	30	<p><b>World Rainforest Day</b> on Jun. 22<sup>nd</sup> was started in 2017 to raise awareness on the plight of the world's rainforests. <b>Challenge:</b> Help your students create a presentation on the four layers found in most rainforests. What animals live within each layer? Do any species on the Endangered Species list rely on rainforests to survive? What would happen if we were to lose the rainforests around the world?</p>				
Intl. Day of the Tropics	International Asteroid Day & National Meteor Watch Day					

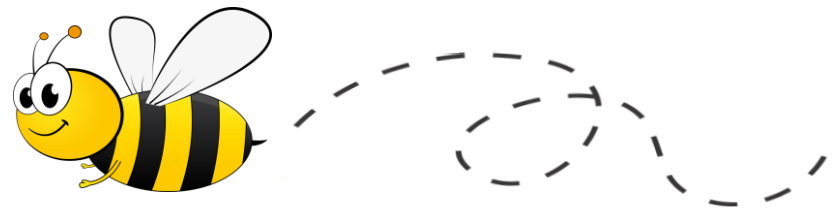


# July 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
	<p><b>Rube Goldberg</b>, born on July 4<sup>th</sup>, 1883, was an American cartoonist and author famous for his cartoons that portrayed comically complex gadgets designed to perform simple, basic tasks.</p> <p><b>Challenge:</b> Have your kids decide on a simple task they'd like to perform, then help them gather the supplies needed to build their own <b>Rube Goldberg</b> machine.</p> <p><small>This image was transferred from <a href="http://www.flickr.com">www.flickr.com</a> under the terms of CC BY-ND 2.0.</small></p>						
		1	 First Quarter	2	3	4	5
			World UFO Day			Rube Goldberg's Birthday Independence Day	
6	7	8	9	 Full Moon	10	11	12
13	14	15	16	17	 Last Quarter	18	19
			World Snake Day				National Moth Week July 19 – July 27
20	21	22	23	 New Moon	24	25	26
National Zookeeper Week July 20 – July 26							
27	28	29	30	31			
	World Nature Conservation Day	International Tiger Day					








# August 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<p><b>National Aviation Day</b> is celebrated annually on Aug. 19<sup>th</sup>, (Orville Wright's birthday) as a day to celebrate the development of aviation.</p> <p><b>Challenge:</b> How do airplanes create lift? Which three forces are in action when an airplane takes flight? Celebrate <b>National Aviation Day</b> this year by helping your kids learn the answers to these questions before designing airplanes of their own.</p>				 First Quarter 1	2
3	4	5	6	7	8	 Full Moon 9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
 First Quarter 31				<p><b>National Ride the Wind Day</b> celebrates the day the first <b>human-powered</b> aircraft (the MacCready Gossamer Condor) won the coveted Kremer prize for successfully completing a controlled and sustained flight.</p>		

# September 2025



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 <p><b>#WorldKidLitMonth</b> was started through social media in 2016 to celebrate world literature translated from other languages.  <b>Challenge:</b> Put a <b>STEM</b> spin on #WorldKidLitMonth and help your kids find STEM themed books published globally.</p> 						
	1 Labor Day	2	3	4 National Wildlife Day	5	6
 Full Moon 7	8	9	10	11	12	13 Programmer's Day
 Last Quarter 14	15 National Arts in Edu. Week	16	17	18	19	20 Intl. Red Panda Day
 New Moon 21	22 First Day of Fall	23 Intl. Day of Sign Language	24	25 Math Storytelling Day	26 Save the Koala Day & Intl. Shamu the Whale Day	27
28 National Fall Foliage Week	 First Quarter 29	30	<p><b>National Fall Foliage Week</b> starts on the last Sunday of September, an ideal time for a nature hike and leaf collecting.</p> <p><b>STEM Activity:</b> Research how leaves change colors with your kids, then help them create leaf animals as an art project.</p> 			



# October 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>October is a busy month when it comes to <b>wildlife awareness issues</b>.  <b>Challenge:</b> Make a list of live animal webcams from around the world, then help your kids create a research journal on one of the animals from the list.</p>					<p><b>National Train Your Brain Day</b> on Oct. 13<sup>th</sup> is the perfect day to challenge your kids with some puzzles, logic style games, or even riddles.  <b>Activity:</b> Start each day this week with a <b>Train Your Brain</b> activity and see how the rest of the day goes. Looking for ideas? <b>Tangrams</b> is always a hit!</p>	
		<p>Raptor Month                      Bat Appreciation Month                      Squirrel Awareness Month                      Right Brainers Rule Month</p>	1	2	3	4
			Intl. Raccoon Appreciation Day		National Techies Day	World Animal Day
5	6	Full Moon	7	8	9	10
National Metric Week			World Octopus Day		National Metric Day	
12	Last Quarter	13	14	15	16	17
	<p>Natl. Train Your Brain Day                      Columbus &amp; Indigenous People's Day</p>					
19	20	New Moon	21	22	23	24
	International Sloth Day	Ntl. Reptile Awareness Day		Intl. Snow Leopard Day	World Lemur Day	
26	27	28	First Quarter	29	30	31
		Intl. Animation Day			Halloween	

# November 2025









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					Aviation History Month National Family Literacy Month	1 Prime Meridian Day National Bison Day & World Numbat Day
2	3	4	Full Moon 5	6	7	8
Daylight Saving Time Ends						National STEM/STEAM Day
9	10	11	Last Quarter	12	13	14
	Nat. Young Readers Week	International Origami Day Veterans Day				
16	17	18	19	New Moon	20	21
	Geography Awareness Week					
23	24	25	26	27	First Quarter	28
Fibonacci Day				Thanksgiving	Red Planet Day	29
30	 <p><b>National STEM/STEAM Day</b> on Nov. 8<sup>th</sup> is a great day to encourage kids to take a more in depth look at their interests in the STEM/STEAM fields.</p> <p><b>Challenge:</b> Combine <b>National STEM/STEAM Day</b> with <b>International Origami Day</b> on Nov. 11<sup>th</sup> to expose your kids to the mathematical concepts, structural design, and engineering skills involved with the art of paper folding.</p> 					



# December 2025



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<p>The <b>Hour of Code</b> takes place every year during <b>Computer Science Education Week</b> (Starts Dec. 4<sup>th</sup> this year). Millions of students around the world participate in this event, making it the largest learning event in history.</p> <p><b>Challenge:</b> Use <b>Scratch</b>, a block-based visual programming language, to introduce your kids to computer programming. If your kids are already programming wizards, now may be the time to introduce them to the world of robotics. Programming robots is fun at any level.</p>					
	1 Antarctica Day	2	3	 Full Moon 4 National Dice Day & World Wildlife Conserv. Day	5 World Soil Day	6
7	8 Pretend to be a Time Traveler Day CSEdu Week & The Hour of Code	9	10 Dewey Decimal System Day	 Last Quarter 11	12	13
14 Monkey Day Christmas Bird Count (12/14 - 1/05)	15	16	17 Wright Brothers Day	18	19	 New Moon 20
21 First Day of Winter	22	23	24 Christmas Eve	25 Christmas Day	26	 First Quarter 27
28	29	30	31 New Year's Eve	 Celebrate <b>National Dice Day</b> on Dec. 4 <sup>th</sup> with your kids by introducing them to math related dice games. Whether you choose to play a game that already exists, or you make one up for your particular needs, dice games are fun for all ages.		