

STEAM Fall Class & Activity Descriptions

September

Online	In Person
<p>Steam Challenge: This month is about boats! We will meet online on Mondays to discuss buoyancy and propulsion. The kids will be challenged to come up with their own miniature boat design out of recycled materials, and be given a chance to test it.</p> <p>Drawing Club: Will be hosted by Lyndsey on Mondays. Kids can share different drawing ideas, sketches, and what they've been working on. Each week we will try out a new drawing technique or challenge.</p> <p>Book Clubs: <i>PreK-1 and 2-4</i> will be hosted by Laurel on Wednesdays. Laurel will read a selection aloud while kids draw, listen and discuss.</p> <p><i>5th and up</i> Amanda and Madeline will host a book club on Fridays revolving around endangered species. Topics and discussion will be kid led, fun, and social! Kids who are interested are invited to lead their own sessions.</p> <p>Lego Social Club: <i>K-4</i> Will meet on Fridays. Beth will lead a discussion of everyone's latest lego builds, challenges and new techniques <i>5th and up</i> Will meet on Wednesdays. Kids will lead the discussion, and take turns picking building challenges.</p> <p>Present and Share: Will be led by Susan and meet the last Wednesday of each month. This will be an informal opportunity to practice oral presentation skills and to share something important to you! This month, Science-SHARE ABOUT YOUR PET OR THE PET YOU WOULD LIKE TO HAVE.</p>	<p>8th- Back to school boating kick off! We will meet at Lake Pelham in Culpepper to rent boats, or bring your own if you have your own kayak or canoe! We will also have masks and for decorating, so kids can personalize their own for the semester.</p> <p>15th- Bike/Scooter/Skate Rodeo and Stick Art Bring your favorite wheels and Helmet to ride the paths at Northern Fauquier Community Park in Marshall. We will have stations to work on a stick art project, road safety activities, and experiment with the effectiveness of different helmets. (If you have old, outgrown or cracked helmets in your garage you are welcome to bring them for testing!)</p> <p>22nd- Field Trip to the Museum of The Shenandoah Valley Gardens in Winchester. Come and see the <i>Big Bug</i> sculptures by David Rodgers on Exhibit installed outdoors and tour the museum gardens.</p> <p>29th- Fishing, art in the park and STEAM challenge We'll meet at Northern Fauquier Community Park in Marshall. Join us at the pond and share your best fishing tips! Bring your own pole if you have one, but we'll also have supplies on hand so you can learn how to DIY one. We will also be testing boats from the STEAM challenge starting at 11:30</p>

October

Online	In Person
<p>STEAM Challenge: This month we'll be "punkin' chunkin'"! Meet us online on Mondays to learn about pumpkin cannon builders and their worldwide competitions. We'll also discuss physics, ideas and techniques for building our own catapults to launch miniature pumpkins at the end of the month.</p> <p>Coding Club: Will meet for 3 weeks on Mondays. We will be working through different Code.org "hour of code" challenges and coding games to keep our skills sharp and share ideas! Separate times will be available for k-3 and 4th and up.</p> <p>Watercolor Techniques: Will meet for 3 weeks on Wednesdays. We'll learn how to use watercolors to get different effects and improve their brush control. Kids will need their own tray of Prang or Crayola watercolors.</p> <p>Minecraft Social: Share your latest builds, new cheats and then meet up in a world to build together. <i>K-4</i> Will meet on Fridays <i>5th grade +</i> Will meet on Wednesdays</p> <p>Endangered Species Book Club: Led by Madeline and her Mom Amanda, will continue to meet for 5th-8th graders on Fridays</p> <p>Present and Share Join Susan the last Wednesday of the month STEAM discussion. The topic for October (Technology and Engineering): SHARE YOUR MARBLE MAZES AND CHAIN REACTIONS</p>	<p>6th- Field Trip to the Isaak Walton League in Front Royal. Meet us there for a nature study! We'll be identifying local plants and birds and looking for fall seeds. There is also a pond for more fishing, so bring your pole from the week before!</p> <p>13th- Field Trip Location is TBD</p> <p>20th- Storybook trail Geology hunt Meet us just outside of Luray to discover the geology of Massanutten Mountain. The trail is a 0.4 mile paved educational trail, with lots of information about the Blue ridge mountains, fun bridges and great panorama at the end. We'll be having a scavenger hunt to look for different types of rocks, fossils, plants and wildlife, and at the end we'll have tips for drawing and taking pictures of landscapes. Bring your sketchbook or camera!</p> <p>27th Costume Party and Pumpkin Chunkin Contest. Location TBD. Meet us for some Halloween and Harvest activities and Crafts followed by our very own, 1st annual Punkin Chunkin Contest.</p>

November

Online	In Person
<p>Steam Challenge: This month we'll be working on Gliders! We'll meet online on Mondays to learn about the basics of aerodynamics and to share ideas for getting our planes to fly straight, far, and have great design.</p> <p>Cardboard Construction: Will meet for 2 weeks with Lyndsey on Mondays. We'll learn and practice new methods for building to make our forts, sculptures and gliders sturdier and longer lasting. Kids will also have time to share ideas for building and show off what they've been making.</p> <p>4th and up Steve Wyborney Number Sense: Will meet for 6 weeks, November into December, with Emily for about 20-25 mn. They'll be working on fun math exploration, you can learn more about the program here https://stevewyborney.com/2019/02/20-days-of-number-sense-rich-math-talk/</p> <p>Pk-4 Book Clubs Will meet with Laurel on Wednesdays, 1 week for PreK-1st graders and 1 week for grades 2-4</p> <p>5th -8th Endangered Species Book Club: Led by Madeline and her Mom Amanda, will continue to meet on Fridays</p> <p>Student Led Electives: One of our favorite things about Steam is when kids teach! This class will meet on Fridays, for 6 weeks. Topics will include Anime and Magic tricks, and whatever else kids are interested in. Email Lyndsey for info.</p> <p>Present and Share: Will meet with Susan the last Wednesday of the month. This month is Art - SHARE YOUR NATURE DESIGNS</p>	<p>3rd: Election Day We'll meet up at Northern Fauquier Community Park in Marshall for some activities related to democracy and the election!</p> <p>10th: Wilderness and Survival Skills Meet us at school in Delaplane to work on your outdoor skills. We'll be working in stations to work on fire and shelter building, orienteering, water treatment, leave no trace principles, and hanging a bear bag.</p> <p>17th: Outdoor games, MESSY Art and STEAM Challenge Meet us at Northern Fauquier Community Park for our last in person meeting! We will play some games, and have some art activities that are best done outside! At the end we'll come together to test our gliders for our last in person STEAM challenge.</p>

December

Online Classes

Steam Challenge This month we will work on building Christmas trees out of cereal boxes (or other boxes with similar weight cardboard). We will meet on Mondays to learn about skyscrapers, pyramids and architectural engineering, and to share ideas and problem solve our structures. Our goals will be to build the tallest trees with the most intriguing design! This month we will ONLY meet online to compare results and celebrate challenge winners.

Sign Language Will meet with Katie on Mondays for 3 weeks. Kids will learn some basics about signing, get a chance to practice their skills with each other.

Paper and Collage Sculpture Will meet for 2 weeks on Wednesdays. The first week we will learn techniques to make 3D paper crafts and start our own sculptures. The next week we will have a scavenger hunt to find common items in our houses and then challenge our creativity by turning them into a sculpture.

4th and up Steve Wyborney Number Sense Led by Emily, will continue to meet on Wednesdays.

5th -8th Endangered Species Book Club Led by Madeline and her Mom Amanda, will continue to meet on Fridays

Student Led Classes Will continue on Fridays through December.

Present and Share will meet the last Wednesday of the month with Susan. The topic is Math- SHARE AND GUESS ESTIMATION JARS