2019 Northside School Family STEM Night Stop by the Northside Library to see what our #NSHeroes are doing to explore STEM and Making.

Station Location Color Key: Pink = NS Cafeteria Blue = NS Gym Orange = Dudley Gym Purple = Dudley Cafeteria

Station #	Station Name	Station Description	Station Leader(s) and Affiliation
1 Room 690	Blast From the Past: Explorers Come to Life	Fourth graders from Mrs. McDermott's class worked with Mrs. Dubois and Hummingbird Robotics to create interactive explorers! Come say "hi," to 6 European explorers who made an impact on NY's history!	Erica McDermott, Jessica Dubois, and Students
2 Music Room	Optics Suitcase	This innovative, interactive presentation is designed to introduce students to the dynamic and exciting range of concepts within the study of light.	Jessica Nelson, OSA Rochester Section
3 Music Room	Optics! The Power of Light	MCC Optics bring demonstrations on the principles of harnessing and controlling light of a fundamental physical property that shapes our world through applied, hands-on demonstrations.	Alexis Vogt, Patrick Stefano, MCC
4	LEGO Great Ball Contraption	Watch amazing machines made entirely out of LEGO! Similar to a Rube Goldberg, each machine has a unique function to help the LEGO balls complete an endless loop!	Jeffrey Johnson, Rochester LEGO User Group
5	RMSC STEM Encounters	Get ready for some hands-on, minds-on STEM-tastic science encounters and fun with RMSC's Curiosity Camps!	Allison Schultes, Stephen Weisenreder, RMSC
6	Make Your Own Concrete	The roads we drive on, the buildings we work in, and houses we live in are all made of concrete! Join The American Society of Civil Engineers (ASCE) and make a sample of concrete and learn about the various jobs and careers in the Civil Engineering profession.	Ed Farrell, Drew Schwingel, Erdman Anthony
7	Drinking Straw Pressure Drop	Engineers design fans to push air through ducts. Try building your own pipe out of drinking straws, and see how difficult it is to blow air through as it gets longer.	Rachel Stuckey, Erdman Anthony, NS Parent
8	Sweet STEM	Which #NSHero can build the largest tower? Use gumdrops and toothpicks to create the tallest tower possible. The goal is to have a tower that can support its own weight as well as be the tallest. Give it a try!	Jill Robertson, NS Parent
9	May the Forces be with You	Join us in testing and floating rubber duckies as we explore amazing forces. No Jedi-mind tricks here, just the wonderment of physics. We'll introduce visitors to the language of physics through different types of forces, and let kids use popsicle sticks to label forces around them.	Annette Dunn, Jumbo Minds, Inc.
10	You Mean Science Can be Fun?	Nine 'Magic' surprises that capitalize on STEM, in ways you don't expect!	Jon Kriegel, Rochester Engineering Society, Finger Lakes STEM Hub
11	Fossils of NY State	Students will have the opportunity to identify some common fossils from New York State and determine what the environment of New York was like in the Paleozoic Era.	Eric Becker, FCSD, NS Parent
12	DIY Science- Upcycling Plastic Into Something Fantastic!	Where do all those empty water bottles go? Garbage dumps and into our oceans, oh no! Learn how to recycle and upcycle used water bottles and have some science fun along the way. Race a balloon powered car, check out our tornadoes, greenhouses, and bird feeders along with other creative ideas and experiments reusing plastic bottles.	Fairport Girl Scout Troops 60029 & 60374

13	App Magic	Interact wit	h virtual objects using augmented reality.	Graham Diehl, Apperdashery LLC, NS Parent	
14	Much Ado About Nothing	scream in s	pressure? What happens when it is gone? If you space, can anyone hear you? Why are ows so fluffy? Curious?	Michael Maiorino, James McLean, Jeremy Grace, Mohawk Valley Chapter of the AVS	
15	The Science c Sound Waves	sound! Lea	NY March for Science shares the science of Irn how sounds you hear travel through air and Iterns they make in sand.	Stephanie Gallant, Rochester NY March for Science	
16	Spectacular Spectrascopy	discover th	astronomers use different types of light to e compositions of our universe via interactive and activities.	Marco Ristic, Annie Dickson-Vandervelde, RIT Astrophysics	
17	Killer Plants	know that t Some are e	e have heard of the Venus Flytrap, but did you here are over 600 species of carnivorous plants? even native to the Rochester area! Visit the Killer e to learn more.	Michael DiCaprio, NS Parent	
18	Just Board Games		s is Penfield and east-side Rochester's board, ble-playing game store! Come try out some of our nes.	Matthew Vercant, Just Games Rochester	
19	Interactive Media and Games		n gives an inside look at the current projects of the n Interactive Game Design company.	Justin Dambra, Workinman Interactive	
20	International Space Statior Projects	-	eveloped at the request of astronauts aboard the al Space Station to improve human life and space.	Donna Himmelberg, Vince Stornello, FHS NASA Hunch Team	
21	Healthy Homes!		ut chemical safety, lead poisoning, air quality, and n stay safe in our home!	Caitlin Fallone, U of R & Linda Scheiss, Monroe County Health Dept.	
22	Video Game Design with the Fairport Library	game! Eac different vio combinatio	els and an iPad you can design your own video h colored block in the Bloxels kit represents a deo game element. Combine them in any n to create a multi level video game. Then use the y the game you created!	Anne Hicks & Lauren Hinett, Fairport Public Library	
23	Red Raiders Robotics Tear 578	n	n about Fairport's Red Raider Robotics Team and ne of our robots!	Fairport Red Raider Robotics, Team 578	
24	FIRST Lego Robotics	Team. Con	Robotics is the first step of the Fairport Robotics ne learn about FLL at the Elementary and Middle el of robotics and watch a robot in action!	Anette Messer, FIRST Lego Robotics	
TEDxNS	: Don't miss th		y to hear inspiring conversations about amazing	science and cool jobs!	
Location	Time	Presenter, Affiliation	Talk Description		
689	6:40	Josh Faber, RIT	The Sounds of Black Holes- Black holes might not give off any light, but they still make waves that travel across the cosmos. Come learn about how scientists detect black holes colliding, what it "sounds" like, and what it tells us about everything from stars to galaxies to the entire universe.		
684	7:05	Nathan Cahill, RIT	Mathematics to Determine if a Goal is Scored- During this conversation Mr. Cahill will explain the mathematics behind Goal Line Technology in determining if a goal was scored in a soccer game. You will also review controversial goals from past World Cups to determine of goals were scored.		