



NEW
DATE!

WELCOME TO OUR WORLD

STEM FAMILY NIGHT

Thursday, February 26th, 5:30-7:30 pm

(Be sure to eat dinner before or after you come-NO DINNER options offered this year)

WELCOME TO OUR WORLD! We hope you come to Root this Thursday night to engage in hands on STEM activities in our grade level and specialists classrooms. Families will also have the opportunity to see STEM projects completed by our students so far this year! Grade level STEM Projects will be on display in various classrooms on each hall and the 3-5th grade STEM Fair Projects will be in the Multipurpose Room.

Special guests include: Mathnasium, Duke Chemistry Outreach, Carolina Tiger Rescue and Science Edventures! Be sure to check out the STEM@Root Family Night Challenge on the back of this page. Visit at least 6 STEM Activity Stations and earn your own packet of PLANT SEEDS!

STEM ACTIVITY STATIONS

Computer Lab:

Join Mr. Peterson for a simulation lab on building bridges that will withstand an earthquake.

Media Center:

Come to "Cutting Class" and exercise your visual perception with Rick Brown of Science Edventures! Try out all the fun hands-on 3D activities using paper and scissors!

Multi-Purpose Room:

Can you find an investigation that used candy or a cool new invention? Go on the STEM Fair Scavenger Hunt of our 3rd-5th grade STEM Fair Projects to find out for yourself! Also visit with Ms Cannon on the stage to check out cool stuff from Carolina Tiger Rescue!

Art Room:

Join Ms. Salton in the Art Room for pipe cleaner creations. Be sure to add your touch to the collaborative painting which will be auctioned off at Root Rocks!

Music Room:

Come to the music room to make simple musical instruments with Mrs. Koo!

STEM Lab: Join Mathnasium of Lake Boone and play fun math activities and games. Prizes will be given for the top 3 estimations of the number of Jelly Beans in the Candy Jar!

Cafeteria:

Duke Chemistry Outreach is back to show Root families how to make real Dip N Dots! Sample what you make! CAUTION: Liquid Nitrogen is used in this activity-parental supervision is required.

Kindergarten:

Come one, Come All! Design a tool to measure wind speed and direction with your child in Ms. Hemingway's classroom. Take it home and test it!

1st Grade:

Help the three little pigs save their house from the Big Bad Wolf! Build a house with your child in Mrs. Cook's and Mrs. Ogden's classrooms that can withstand the strongest force winds.

2nd Grade:

Come to Ms. Parker's classroom to help save "Fred" and build the tallest tower using index cards and tiny cups.

3rd Grade:

Can you design a parachute that falls the slowest? Come to Ms. Fenimore's room to design and test parachutes with your child.

4th Grade:

Go to the cafeteria to try your hand at building freestanding towers using only marshmallows and toothpicks. Do you think you can create the tallest one?

5th Grade:

Fifth grade students have turned the stairway from the front hallway down to the gym into a musical scale! Using our MakeyMakey inventions kits, we have learned to use different objects to interface with our computers. Come walk up and down the stairs and create beautiful music as you do! The MakeyMakey kits will also be available for students to use.

STEM@Root Family Night Challenge

Name: _____ Grade/Teacher: _____

Are you ready for the
STEM@Root Family Night Challenge?

1. Write your name, grade and teacher on top of page
2. Draw a part of a plant or flower after each STEM Activity you visit. For example, draw in a stem after your first activity, next draw in a leaf or flower after your 2nd activity, etc. You can “grow” as many plants as you want depending on how many activities you visit!
3. Answer the question below.
4. Return your Challenge form at the front entrance before you leave.
5. If you have visited at least 6 out of the 13 STEM Family Night activity stations and answered the question, you will get your own packet of **Plant Seeds!**

My favorite STEM Family Night Activity was:

