

2020 SCIENCE ZONE BOOTHS

Blood: The Kingdom in Your Veins *presented by Sarah Koshy and Sydney Mulqueen*

“With a medieval theme, our booth’s goal is to educate our visitors about the functions of blood. We will discuss the microscopic components of blood and conclude with a short discussion about blood donations.”

Breathe In! Breathe Out! *presented by Garrett Sherrill and Cara Jacobson*

“The booth will have two inflatable pig lungs, one diseased (simulated smoker’s lung) with cancer spots and one normal. The booth will allow patrons to interact with both lungs, seeing and feeling the difference, with emphasis on smoking cessation.”

Circulatory Straws *presented by Fady Guirguis and Seth Bohman*

“Using straws and a heart model, we plan on illustrating the circulatory system and the effects of various diseases on the vascular system.”

CSI Mi-RAM-I *presented by Sarah Cao and Avery Young*

“This booth will lead kids clue-by-clue to find out who stole the school mascot; clues will include using microscopy, footprints, handwriting, DNA/blood typing, and fingerprints.”

Do You Want to Build a Snowman? *presented by Brian Lue and Jennifer Wang*

“We are making supersaturated solutions of sodium acetate, which, when disturbed, will crystallize and form ‘hot ice’.”

Elephant Toothpaste! *presented by Hiren Patel and Avni Shah*

“A fun science experiment for students to see the magic of how a chemical reaction can make ‘toothpaste’. We will then have a discussion on proper dental hygiene and demonstrate how to correctly brush your teeth.”

Getting on Your Nerves *presented by Rachel Green and Avery Wolfe*

“The booth will demonstrate basic nerve physiology with a homunculus activity on point discrimination and a candy spine craft to demonstrate spine anatomy.”

Gut-Buddies: The Superheroes in Your Belly *presented by Brooklynne Palmer and Arlen Suarez*

“We will be educating about the importance of the microbiome. We will have an activity for them to guess which foods promote beneficial bacteria growth and how it does so.”

Hands-on-Hands! *presented by Niddish and Peter*

“A craft booth where kids make hands/arms/organs with everyday materials.”

Heart-Stopping Fun *presented by Lauren Shaffer and Subhajit Das Gupta*

“This booth will provide visitors with a chance to interact with real pig hearts and an elephant heart to learn more about the heart anatomy and how it works!”

How Electricity Works *presented by Carla Madrid and Priscilla Del Valle*

“A fun booth showing kids how current runs through a battery to produce light.”

How Eyeglasses Work *presented by Mian Tabarak Bilal and Sham Haider*

“The booth will focus on the physics of light refraction and the function of artificial lenses. We will include diagrams about the structure of the eye and have model lenses to show how bending of light helps us to see.”

Magic Bus *presented by Weronika, Hailee, Vanna, Kelly, and Gabby*

“A booth presenting dry ice experiments, liquid nitrogen, elephant tooth paste, and fluorescence.”

Make Your DNA...& Eat It *presented by Natalie Ortiz and Blessy Paul*

“Making DNA model out of candy.”

Molecular Kitchen *presented by Mateusz Drozd, Agnieszka Bolembach, Kseniia Dudnyk, and Oliwia Koczy*

“Welcome to Molecular Kitchen Restaurant! Try rainbow spaghetti and space ice-creams made with liquid nitrogen and fruit caviar. If you want to experience innovative tastes and textures of food, welcome to our place.”

Now You See Me, Now You Don't! *presented by Alec Bond and Maryam Mashayekhi*

“I am going to use a lens that exploits refractive index to make items disappear. Also, my partner may have a different experiment in mind involving electro-magnetism.”

Optics *presented by Cooper Mellema and Mitzi Cowdwin*

“What is light? How does it work? What can it do? From rainbows to MRI, come learn about it!”

Prosthetics & Orthotics in Action! *presented by Morgan Gizzi and Jan Karel Petric*

“Show the type of work we do in our field, and show what devices we make and how they impact our patients.”

See Your Cells *presented by Karolina Stepien and Martyna Kosno*

“Make a scientific sample of your own cells and see them under a microscope!”

Sugar Wars *presented by Jenifer Fang and Robyn Wei*

“Our booth will educate on the truths and myths about sugar consumption. We will teach the reality of how much sugar the average individual consumes.”

The Science of Sound *presented by Reena Jasani*

“Learn about sound, what affects it, how it shows up in our lives, and create your own instrument!”

Where Does My Food Go? *presented by Prachi Shah, Amulya Pratapa, and Jessica Lowe*

“We will be demonstrating the path food takes through the gastrointestinal tract. Additionally, we will discuss pathogens present throughout the tract.”