



## “Survival: Microbes”



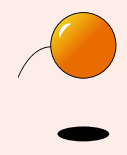
Students will learn about extremophiles, which are organisms that live in difficult environments to survive. Students will use microscopes to observe both tardigrades and bacteria that can survive in the digestive tract of reptiles. In addition, students will have the chance to meet one of the science center's reptilian animal ambassadors

## “Shrinky Dink Cells”

In this activity, students will have a chance to look at plant or animal cells through microscopes and recreate what they see on shrinking paper that they can then bake into a charm, or a



## “How Do Bouncy Balls Bounce?”



Did you know that different types of material have different properties? In this activity students will learn the difference between “happy” (bouncy) and “unhappy” (not bouncy) balls. They will learn what a polymer is and they will get to use a specific polymer called “polyvinyl alcohol” to make their very own bouncy ball.



## “Antibuddies: Preparing to Fight Germs”

Germs are gross and can make you sick, but don't worry! Our bodies make tiny defenders called “antibodies” to fight back against these nasty germs! At this interactive booth, you will get to see how our tiny antibuddies work and learn how vaccines prepare us for germs before we even get sick



# PPE SCIENCE NIGHT



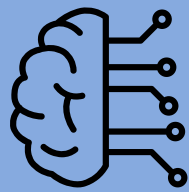
Dive into hands-on fun to learn about Brains, Mechanics, Microbe cities, Animals, and the inside of cells



## “Microbial Cities”

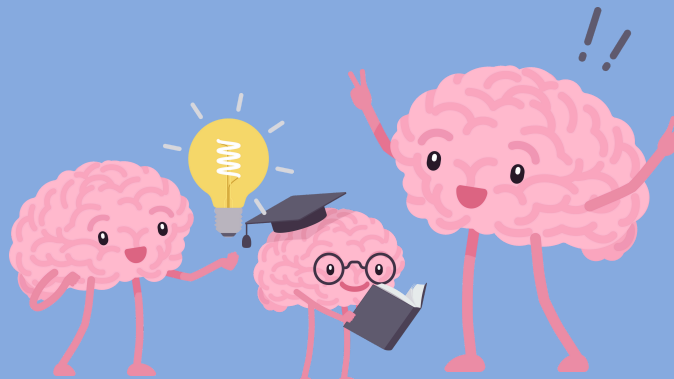


Did you know that microbes also like to build cities? These are called “biofilms” and allow microbes to live close to one another, sharing goodies. They also build a protective “coat” called the matrix that protects them from dangers in the environment. You can find biofilms everywhere, even in your own home! This booth will show students different types of biofilms microbes build and will give out a “treasure hunt” game to see how many biofilms they can find at their home or garden!



## “Brilliant Brains”

Have you ever wondered how scientists learn about the shapes and sizes of different cells? Have you ever enjoyed a glow bracelet or watched fireflies blink and wondered “how does THAT work”? Come to Brilliant Brains to en-light-en yourself about the different ways things can glow in the lab or in nature and make some glowing light yourself!



## “A Close (Gross) Look Inside Brains”

Nearly all animals have a brain, but how are they different? What are they made out of? How do we study and learn more about the brain? Join Vanderbilt Neuroscientists at this booth to compare and contrast different animal brains. Dive inside the brain with us through a guided walkthrough of a sheep brain dissection and see first-hand what makes us think!”

