

Workshop Title	Workshop Descriptions
The Secret Lives of Our Minds	If you want to learn how you think, feel, and behave, this is the workshop for you! In this workshop, you will participate in some games while being connected to some devices. Through these activities, you will learn about the most cutting edge technologies behavioral scientists use to figure out where your eyes are at, how your heart reacts, and how your brain works. (Behavioral Science / Psychology)
Why Frogs Don't get Fat	Living in the wild means being surrounded by predators 24/7. Simple decisions such as when to look for food and when to hide are important as one wrong move could mean an animal becomes lunch. Come learn about predator-prey relationships and how animals balance when to eat and when to hide, and what the biological consequences are of dealing with a constant threat from predators. Then learn about how this balance may be related to obesity in humans! (Biology)
The Building Blocks of Life	Come find out about atoms, small molecules, macromolecular polymers and biomolecules! You will be introduced to the periodic table of the elements and properties of acids, bases and polymer materials. You can discover some water absorbing polymers in disposable diapers and perform a polymerization reaction. (Chemistry)
Water, Water Everywhere	Where does water from the tap or bottles come from? Where does it go? To the ocean, sky, lake, or below ground? Yes! Water in nature cycles through all these places with different speeds and intensity. We call this 'the water cycle.' After this workshop, you will understand and appreciate the importance of water and realize how we take it for granted. (Earth Sciences)
Keep Calm and Wind On	Wind Engineering is a quickly developing field in West Texas. Everyone will get to design and build a small scale wind turbine! We will also learn about how they capture, store and use electricity. (Energy Engineering)
iRobot. Do you?	Robots are becoming increasingly present in our world. In this session, we will explore how robots are being used in society and the impact they have on our lives. Then you and your team will use LEGO Mindstorms EV3 robotics kits to design and build a robot to complete fun and exciting challenges. (Engineering)
Fierce, Fabulous Forensics	Come join us and learn about what it's like to work in forensics. We will be focusing on fingerprint identification and analysis techniques. During the workshop you will learn how skills such as math, logic, chemistry and biology are used in forensic careers. (Forensic Science)
Rockin' the Rock Cycle	Did you know you can melt rocks? Come explore the mystery of meteorites, fossils, and minerals and learn how to melt a rock. Come experience how earthquakes, volcanoes, and landslides affect us, even in West Texas! (Geology)
The Science of Eating, Moving and Living Healthy	Come get a "behind the scenes" look in laboratories of scientists whose roles are to learn about and promote personal healthy eating and exercise. You will learn about and experience how to assess fitness, body composition, and eating behaviors. You will also learn how to create your own health and fitness experiment. (Kinesiology)
Future of Healthcare	Discover the world of biomedical research and medicine being explored at Texas Tech University Health Sciences Center. Come and learn basic medical techniques, examine various pathogens, and much more! (Medicine)
It's a Small World After All	Good and bad bacteria fill our world! Using non-harmful bacteria, we will get to look at real bacteria growing in a petri dish and learn about how good and bad bacteria battle. (Microbiology)
How to Push the Limit in a Toxic World	It's a toxic world out there! Join us for hands-on activities to understand how toxicologists study the effects of pollution and chemicals on the plants and animals all around us. You will learn the basics of toxicology and do experiments to understand threshold effects as well as extract DNA! (Environmental Toxicology)