



2023 STEM PATHWAY SESSION DESCRIPTIONS



A Brainiac Experience - Neuroscience: Ask your neuroscience questions, ponder brain models, and investigate curious neurological cases with a neuroscientist turned teacher of science teachers turned science writer.

A Chance to Cut Is a Chance to Cure - Veterinary Medicine: Would you love to work in an animal OR? A brief introduction to common veterinary surgical procedures, surgical instruments and suture patterns.

A World of Imagination - Mathematics: Mathematics is party! Learn how creative, imaginative and an essential part of the world around us. Explore math from a different perspective than the math you often see in school. Experience the beauty of mathematics in the natural and human made world around us.

Balanced Living - Physical Therapy: Investigate what keeps us in balance with a neurological physical therapist and discover the multitude of career options in the field of physical therapy. Karen Ahern
Balloon Rocket Challenge – Civil Engineering: It's a bird, it's a plane, it's a balloon rocket! Put your creativity and engineering skills to the test and see whose rocket will fly the furthest.

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Boats, Snorkels & Computers - Fish Biology: A day in the life a fish biologist.

Care With a Personal Touch - Nurse Practitioner: Nurse Practitioners are quickly becoming the health partner of choice for millions of Americans providing medical care like a doctor. Their care includes young people to the elderly and everyone in between. Explore your interests to discover one way to make the world a better place.

College Options Roadmap: Prepare for your dream career! Be inspired to make plans to reach your highest goals.

Design the Future - Coding: Learn how to make simple circuits and program them for fashion. Attendees will need to create an account at TinkerCAD.com before the session.

Discovery Flight - Aviation: Survey the various careers that are available in Aviation including the local programs available such as the Young Eagles and Civil Air Patrol.

Edible Adventure - Agronomy: Explore the fascinating world of plant genetics, plant breeding and agricultural science and the science that goes into the strawberries you eat.

Guardian Angels - Pharmacy: Medication dosing, IV compounding, and more...Hospital pharmacists are more than the person behind the counter who keep patients safe.

In Land We Trust - Land Conservation: If you love being outside and exploring the natural world, join the Shasta Land Trust and learn about a career in land conservation. Discover the environmental benefits of conservation including the protection of healthy ecosystems, trails, wildlife, plants, ranches and farms and the tools used including Drones.

Lab Coats and Microscopes - Forensics: What is really like to work at a crime lab. Investigate and analyze a possible criminal case.

Let's Get Physical! - Human Anatomy and Physiology: Are you interested in the medical field? Professor Jessica Colwell share the importance of STEM classes in preparation for a career in medicine. Explore real human bones, see what the brain looks like, and even handle a real cow heart!

Make a Cordage Bracelet - Botany: Explore why plants are so complex and cool and why we need them to survive and thrive! Discover how we use plants in our daily lives including making a cordage bracelet from plant fibers.

Medicine and Teamwork - Physician Assistant: Physician assistants are important members of the health care team in many hospitals and clinical practices, in a wide variety of specialties. Explore a future in medicine.

Someone Who Cares - Nursing: Nurses are highly skilled professionals who make a positive difference in the lives of their patients. Explore a career with an unlimited number of opportunities.

Stop Drop & Roll - Fire Prevention Specialist: What it takes to help keep our forests safe from wildfires and to investigate fires when they do start.

The Body Within - Medical Imaging: Be a technician who helps doctors diagnose conditions by taking pictures of the inside of the human body.

The Unseen Universe - Pathology & Histology: Pathologist are essential for patients in the world of medicine. Examine a slide of your own cell under a microscope.

The Wave of the Future - Robotics: A tool for fun and for good. No Presenter

Stop Drop & Roll - Fire Prevention Specialist: What it takes to help keep our forests safe from wildfires and to investigate fires when they do start.

Watch Your Step - Information Systems: With code, we'll program a dance to develop programs that respond to timed events, that respond to user input, and that create dance animations.

What Does It Take to Become a Doctor? - Family Practice Physician: An interactive session with Q&A and chance to experience physical exam skills.