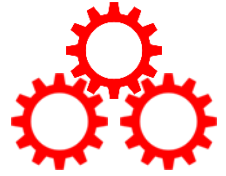


# 2023 STEM PATHWAY SESSION DESCRIPTIONS



**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.