



## Summer 2019 STEM Camps

### **Mission to Mars (Grades 2-3)**

Think, Plan and Design a Mission to Mars with a team of astronauts who are focused on learning the Dynamics of Launch, Space Flight, Landing and Setting Up a Habitat. The team must consider all requirements of the human body, the impact of space travel and a Martian environment.

### **Space Camp (Grades 4-6)**

Learn, team-up and compete in NASA Design Challenges including Hot Air Balloons, Wing Design, Rockets, Heat Shields and Liquid Nitrogen Apollo Capsules.

### **Tinkering Camp (Grades 4-6)**

Tinker, Design and Create your own vehicle as you study Engineering, Construction and Design processes. Students will be using various tools and techniques to critically think about their tinkering.

### **Coding & Gaming (Grades 4-6)**

Code Games, Learn Programming Language and Explore Applications in Software and Technological Innovation. Students will also be coding and flying drones through their own obstacle courses.

### **Force Camp (Grades 4-6)**

This module will study physics, play with forces and create projects that generate real energy and maybe a few safe explosions. Additionally, students and teams will explore forces using Flexcarts and Inquiry Projects.

### **River Camp (Grades 4-6)**

Explore the ecology of the Little Spokane River firsthand through field trips, canoeing, macro invertebrate sampling and wildlife observations.

### **CSI Forensics (Grades 4-6)**

Become a CSI. Investigate a crime scene and “Test the Evidence” to solve the crime as a team of detectives using real world technology and forensic skills.

**The Operating Room (Grades 4-6)**

Teams of student physicians will study systems and diseases and then operate on specimens identifying the comparative anatomy and physiology of diverse species.

**Design Academy (Grades 7-8)**

Learn and apply Design Thinking to solve various problems. Using Project-Based Learning students will work in teams to Empathize, Define, Ideate, Prototype and Test creative solutions using 3D printing and various technologies in our Fabrication Lab.

**The A in STEM (Grades 7-8)**

Expanding into the arts, this module is focused on drama. We'll take a look at STEM and our world from a different perspective incorporating art, acting and the complementary role the arts play in Summer STEM Academy.