

EXPANDING HORIZONS 2018 STEM DISCOVERY

For Grades 3-8

RIVERSIDE



SESSION ONE (JUNE 25 - JUNE 29)

9-10 a.m. **Check-in, Guest Speakers**



10-11:15 a.m.
The Art of Geometry

Did you know there is art in geometry? Art and mathematics are closely related. Explore and investigate connections between mathematical concepts and the multi-dimensional world around them. Learn how geometry plays a part in structure and design, and create your own art.

11:15-12:30 p.m.
Makerspace Challenge

Want to build a bridge, make a pulley system or create a Bristlebot? Makerspace is taking the world by storm! Imagine DIY meets education. Engage in hands-on inquiry and investigate creativity in action. Work as a team to solve Makerpuzzles, share ideas, design concepts, and engineer/re-engineer solutions.

12:30-1:15 p.m. **Lunch**



1:15-2:30 p.m.
Robotics with Sphero

Get on the ball with robotics! Sphero SPRK is more than a robot; it's a vehicle for discovering science, math, programming, and art in new ways. Engage your hands and minds while working on interactive and collaborative STEAM challenges that put analytical and problem-solving skills to the test.

2:30-3:45 p.m.
Theme Park Designer

Work as a design team to complete a series of challenges to design and build your own theme park. Plan all components of the park design such as concessions and rollercoasters. Marbles will race through the rollercoasters to test safety and speed. Teams will compete for best design.

3:45-4 p.m. **Daily Wrap**



SESSION TWO (JULY 23 - JULY 27)

9-10 a.m. **Check-in, Guest Speakers**



10-11:45 a.m.
STEM Challenge

Engage in daily STEM challenges. Research, explore, design, engineer, experiment, and test your STEM creation. Discuss common STEM connections, and share your ideas through group presentations.

11:45 a.m.-12:15 p.m. **Lunch**



12:15-2 p.m.
Robotics with Sphero II

Get on the ball with robotics! Sphero SPRK is more than a robot; it's a vehicle for discovering science, math, programming, and art in new ways. Engage your hands and minds while working on interactive and collaborative STEAM challenges that put analytical and problem-solving skills to the test.

2-3:45 p.m.
Shake-Up Engineering

Ever wonder why some buildings are still standing after an earthquake? Learn about engineering design processes and how to protect, support, and earthquake-proof structures. Engineer your very own model building and shake-test it against various levels of seismic activity.

3:45-4 p.m. **Daily Wrap**



Visit our website for requirements and to apply.

This is a sample schedule.
Content may be delivered in a different sequence.

PROGRAM INFORMATION

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