

# Educational Programs: 6<sup>th</sup> Grade And Up

\$4 add-on to group admission

## CSI: Tampa (Forensic Science)

Capacity 25 per session | 45 minutes | 6<sup>th</sup> grade and up

Challenge your students to solve a simulated crime by performing a variety of techniques used by forensic scientists in the DEA and FBI labs. Students analyze evidence such as hair and blood samples, use chemistry to identify unknown substances to solve a simulated crime. Go behind the scenes of this fascinating application of science and technology. SC.N.1, SC.L.16

## The Code of Life (Life Science)

Capacity 25 per session | 45 minutes | 6<sup>th</sup> grade and up

Explore why DNA is considered the “blueprint of life” in this introduction to its coded structure and the role that it plays in genetics. Extract DNA from human cheek cells and learn why each step of the procedure is important. Run gel electrophoresis to conduct a DNA fingerprint simulation in this exploration of biotechnology. SC.N.1, SC.L.16

## Kinetic Art (Engineering)

Capacity 25 per session | 45 minutes | 3<sup>rd</sup> grade and up

Experience the action of poetry in motion as students master the mechanics of movement by building a Rube Goldberg-style machine. Teams work together to build a complex machine using pulleys, cranks, gears, marbles, and other engineering contraptions. Combining fundamental forces with creative invention, students will experience the pride of building a wild, moving chain reaction.

SC.E.5.4, SC.N.1.1, SC.P.10.2, SC.P.12.2, SC.P.13.1

## Materials Madness (Materials Science)

Capacity 25 per session | 45 minutes | 6<sup>th</sup> – 8<sup>th</sup> grade

Use chemistry and physics to test the durability and structure of different substances. Stretch a garbage bag to see if it can hold one gallon of water without breaking. Create PVA slime and learn about different polymers. Create a concoction that will disintegrate steel wool. This class will stretch your understanding of STEAM. SC.P.8, SC.P.9, SC., SC.N.1

## Ridiculous Reactions (Chemistry)

Capacity 25 per session | 45 minutes | 6<sup>th</sup> – 8<sup>th</sup> grade

Become a chemist and experience what happens when the elements come into contact with each other. Create hot ice and learn how the reaction helps people that live in colder climates. Test the strength of a gallon size Ziploc bag using chemicals that are found in household products. Finish the class by creating a mini – firework and art sculpture from heating baking soda and powdered sugar. It promises to be a blast. SC.P.8, SC.P.9, SC.

## Robot Engineers (Robotics and Coding)

Capacity 25 per session | 45 minutes | 3<sup>rd</sup> grade and up

Take on the role of NASA engineer to build and design a Mars rover. Use imagination and problem-solving skills to guide robots across various terrains to collect samples. Discover amazing places in our solar system while exploring the field of robotics. SC.N.1, SC.E.5, SC.P.10, SC.P.11, MA.G.5.2, SC.E.5.2, SC.N.2.1