

The Learning Choice Academy
Spring 2018 Full Day Class Descriptions

Grades K-5 - Adventure classes for **Chula Vista and La Mesa**. Class syllabi will be available on-line the first week of classes.

Art (K-2 & 3-5)

Explore your own super power of creativity as you experiment with different styles of art around the superhero theme! Topics covered include manga, cartoons, 3-D figures, drawing, and more! Learn important techniques like figure illustration, texture, pattern and shading to make your art pop!

Mechanical Engineering/Makey-Makey (K-2)

This is truly an inventor's workshop loaded with fun, creativity and of course-engineering. Students will be introduced to fundamental concepts of energy, materials, and movement in Mechanical Engineering as they design and build toys including spinners, magical boomerang cans, wind-up whirligigs, and more! They will also create their own versions of common musical instruments such as drums, piano, and guitar using Scratch programming (developed at MIT) and Makey Makey hardware to bring music to life! Note: approximately half the weeks will be Mechanical Engineering and half the weeks Makey Makey.

Video Game Design (3-5)

During the Electronic Game Design, students will use Multimedia Fusion 2® to create and program their own video games. Students use the Engineering Design Process to create a storyboard to outline the rules of play and characters for their games. Students will be introduced to designing platform style games (e.g. side-scrolling, Mario-type game) and invader defense style game (e.g. Space Invaders and Galaxian). They will need to program multiple levels to reach the games and goal. At the end of the class, students take home an executable copy of the games they create.

Stomp (K-2 & 3-5)

This is a stomp out class. You will learn percussion movement which in this case is moving and making music from everyday household objects like trash cans and brooms. Be ready for a high energy experience!

Superheroes: The Science of Super Powers (K-2 & 3-5)

Learn about the science behind your favorite heroes' powers. Students will explore gravity, aerodynamics, forces, motion and much more as they learn about flight, super villain fights and superhero vehicles. This is sure to be a SUPER powerful class!

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Art

Each week students will be lead by the teacher in projects related to the theme of the week using various mediums including painting, drawing, sculpture and collage. Students will learn and practice basic art skills such as color mixing, painting with artist paintbrushes and drawing with pencil, marker, pastel and more. This class is for students of all skill levels and accomplishments. Join us for a worldly adventure!

Building Fundamentals in Math

Do you love math or need a little extra support? Well, the format of this class is based on skill levels for excelling and for supporting you in math. A team of math teachers will help your child navigate through the fundamental skills needed in math. This class will combine interactive and challenging math games, engaging technology tools, and problem solving strategies to strengthen mathematical conceptual learning for building algebraic thinkers.

Engineering for Kids- 3-D Printing: Superheroes

Students will continue exploring how 3D printers work and how 3D designs are created. Master the Tinkerverse by using an online computer-assisted design program called Tincad to create more complex 3D designs. Students will create their own superhero figure, mask, vehicle, and sign to name just a few of the super special featured projects!

Martial Arts

Karate training that focuses on the importance of teaching technique, but also on building good character and bringing out the best in each student. Students will learn the importance of respect, focus, stranger awareness, and bullying prevention in hopes of having a positive impact on the community and building character for future leaders.

Science Lab Survey

Dip your toes into various fields of science by experimenting with some classic labs. Anatomy, chemistry, astronomy, physics, geology - get a taste of them all while getting your hands dirty. Students will get to play with circuits, dissect owl pellets, build and test a hovercraft and more! Each week will feature a different field of science and hands-on lab.