

**ALF SUMMER SCHOOL 2018**  
**CLASSES FOR GRADES 7-8**

**3D Printing**

Students will learn the basics of 3D modeling. They will design and produce accessories, toys and small products.

Grades 7-8: Period 2 or 3

**Band Rhythm & Blues**

Keep up the beat with other musicians during the summer. Continue developing instrumental skills and explore music theory in a small group setting. Students participate in musical improvisation.

Grade 7-8: Period 3

**Culinary Arts**

Budding chefs receive instruction in nutrition, techniques of menu planning, choosing recipes, preparing meals and clean up. **STUDENTS WITH FOOD ALLERGIES CANNOT ENROLL IN THIS CLASS.**

Grades 7-8: Period 1, 2 or 3

**Drawing & Painting**

Immerse yourself in new techniques of illustrating based on the works of contemporary masters such as Matisse, Picasso, Warhol, Hockney and Haring. Experiment with an array of materials to create some wildly explosive works of art

Grades 7-8: Period 2 or 3

**Engineering & Construction**

Work in competitive groups to design, plan and build scale model bridges and skyscrapers. Deal with motion and forces, risk and benefits, spatial configurations and measuring. Work as a team to apply abstract concepts such as stress and the law of gravity.

Grades 7-8: Period 2

**Glee**

In this class, students will have the opportunity to become a "triple threat" as they receive training in voice, acting and dance. Using popular songs and jazz-inspired choreography, students will sing melodies and harmonies as they perform routines to the music. The session will conclude with an exciting live performance. Discover your inner Gleek!

Grades 7-8: Period 3

**Math Enrichment, Grade 7**

Keep your math skills in shape this summer and get ready for 7th grade! This class provides a variety of fun enrichment activities to explore math concepts such as word problems, geometry, polynomial equations and integers.

Grade 7: Period 1 or 3

## **Math Enrichment, Grade 8**

Class is designed to strengthen math skills necessary for success in Algebra 1; includes algebraic word problems, factoring polynomials, solving multiple-step equations and game strategy.

Grade 8: Period 2

## **Robotics & Coding**

This course gives students the opportunity to design, build and program small mobile robots using Lego kits, tiny onboard computers and a variety of sensors and actuators. The course will explore concepts from computer science such as coding, structure programming, abstraction, reasoning under uncertainty and real time control as students design and build robots to accomplish defined tasks.

Grade 7-8: Period 2 or 3

## **Sculpture & Ceramic Art**

In this class, students explore a variety of art processes and techniques. Using different types of sculpting tools, pottery wheel, and media (including paper maché, wood, clay, plastic and wire), students will use their creativity to assemble, carve, form, bend and mold materials into 3D works of art.

Grades 7-8: Period 1 or 3

## **Sign Language**

Let your fingers do the talking! American Sign Language (ASL) is the primary sign language of deaf communities and is the 3rd most used language in the US, next to English and Spanish. This class will introduce students to the ASL method of non-verbal communication.

Grades 7-8: Period 3

## **Sports Zone**

Participate in a variety of activities including indoor soccer, kickball, volleyball and Whiffle Ball. Join in a mini-Olympics involving games of skill and adding new twists to classic sports and games.

Grades 7-8: Period 3

## **Tennis**

A great way to start the day! Enhance tennis skills through coaching and play.

Grades 7-8: Period 1 or 2

## **Writers Workshop**

Using everything from video games, movies, books to real-world problems, students develop creative and persuasive techniques to better understand and enjoy the writing process.

Grades 7-8: Period 1, 2 or 3