

Grades 3 and 4 Across the USA

10 states in 10 days! Students will play games and solve puzzles as they discover interesting facts about a different state each day. Included in this fun study will be the state's location, its capital, its nickname, its bird, some of its famous people, and landmarks. A great introduction for future social studies classes.

Advanced/ Beginner Swim

To determine your child's ability level, please refer to the descriptions below. All children will be tested by the instructors on the first day of each session and appropriately placed on their ability level.

Advanced Beginner: Child must be able to swim the length of the pool (25 yds.) using the freestyle stroke in 7-foot deep water.

A student must be enrolled in Enrichment/ Recreation to participate in the swimming program.

Beginning Basketball

Dribble, pass, shoot, score and more! Budding athletes will work on their motor abilities as they develop the basic skills of this popular sport. Eight-foot baskets and smaller basketballs help the players have a successful experience.

Beginner Swim

To determine your child's ability level, please refer to the descriptions below. All children will be tested by the instructors on the first day of each session and appropriately placed on their ability level.

Beginner: Child must be able to comfortably submerge their head in the pool.

A student must be enrolled in Enrichment/ Recreation to participate in the swimming program.

Bing, Bang, Boom!

STOMP...ACS style! From boomwhackers and rainsticks to guiros and djembe, from snare drums and bongos to doumbeks and coffee cans, students will explore the world of percussion in this fun and dynamic class. Students will compose multiple percussion ensembles based on traditional, fixed-pitch instruments as well as non-traditional, student-created instruments.

Brain Games

Exercises for the mind! Through a variety of games, puzzles, and activities, students will sharpen their skills and abilities in thinking logically, spatially, mathematically, linguistically, and creatively.

Challenge Yourself

It will take teamwork, planning, listening, and compromise to complete the challenges of the Avery Coonley School adventure course. Students will test their bodies and minds

as they work through new tasks on the low ropes course. No one gets left behind in this class as we strive to accomplish new heights together.

Chapter Book Challenge

Dive into a chapter book! Each day students will strengthen their thinking skills by listening to parts of a classic novel, participating in class discussions, and completing a written response. The featured books will include "The Lion, The Witch, and the Wardrobe", "My Father's Dragon", "The Cricket in Times Square" and "Holes".

Chess for All

Professional chess instruction will include opening game principles, middle game combinations with strategies and tactics plus end game ideas for an exciting and interesting experience with the "sport of the mind" CHESS. Each student will move to a new level of expertise through their 2-week session.

Creative Concoctions

Explore simple science experiments using common household ingredients. Based on the scientific method, this class will teach young minds to make connections and discoveries, to develop hypotheses and conclusions, and to keep logs of their observations.

Creative Drawing

Get ready to sketch! Each artist will learn how to draw using different media. Students will learn various techniques that include shading and the use of space to create depth within their drawings. Emphasis will be placed on imagination and creativity.

Escape

Help open the lock! Participants work together to solve a series of engaging problems to achieve a common goal: open the locked box. A class that cultivates the life-long skills of critical thinking, collaboration, creativity, and communication.

Exploring Painting

Calling all artists to explore the art of painting! Concepts covered will include color theory, brush and non-brush techniques, and composition, as students use a variety of paints and mediums. Students will enjoy creating many works of art while expanding their creative skills.

Fractured Fairy Tales: Peter and the Wolf

Remix this classic through theater and dance! Students will improve their coordination, flexibility, and imagination as they create various animal characters to help capture the wolf. Participants will also help choreograph their interpretation of this tale which they will perform for family and friends virtually. Note: No previous dance experience required.

Fundamentals of Public Speaking

Learn the fundamentals of public speaking while having fun. In this class, students will learn the correct method of writing a two to three-minute speech they will present for the class. Along the way they will also play games that teach projection, hooking the audience's attention, and listening skills.

Invention Convention

Construct your original invention. This popular course will review the contributions of past inventors and provide students with the opportunity to develop and construct their own original inventions. This is a great hour of expanding the mind, solving problems using creativity, collaboration, and teamwork while having fun.

The Golden Ratio and Beyond

Starting with the Renaissance Masters and moving forward, students will use art and design to explore mathematical concepts. Students will construct models, drawings, and sculptures to interact with mathematical constructs.

It's Greek to Me

Travel through time and space to climb Mt. Olympus. Students will study Greek mythology, learning about the Olympian gods and goddesses, and exploring the connections these ancient stories have with modern society.

Knock, Knock: SCARY is Here!

Have fun making scary objects! Students will have a delightfully creepy time learning about "frightening" things from the past to the present through art, literature, and science, and then create their own scary works of art.

Lego Science

Legos are more than toys! This popular Lego-designed curriculum introduces students to simple machines and structures that explain how things work. Students will assemble their own working models to explore physical principles.

Movin' and Groovin'

Develop and challenge your expressive and creative talents. This course will guide students to do this through a variety of dance movement explorations. No previous dance experience is required. Each session culminates in an informal presentation for family and friends. Comfortable, loose clothing should be worn.

Music Theory

This course is intended for students with little or no background in music who would like to develop a theoretical and practical understanding of music and how music works. Students will be introduced to the technical details of music such as musical notation and rhythm. We will also explore the world's most famous composers and their works as well as different music genres.

NU CTD Chemistry & Engineering Pathway

Week 1: Chemistry: Liquids & Mixtures – Students create their own concoctions, observe the amazing (and sometimes messy) results, and document their discoveries and conclusions. They explore the properties of liquids, solids, and gases, including differences in shape, boundaries, visibility, and stability. Week 2: Physics: Structural Engineering – Students build small-scale models to explore how construction methods and materials are important to creating buildings that stand up to enormous forces and loads. They combine their creativity with physics, design-thinking and engineering skills.

NU CTD Engineering Pathway

Week 1: Building Skyscrapers – Student architects design and build models of skyscrapers and other engineering challenges as they incorporate physics principles into creating stable, soaring structures. Week 2: Civil Engineering: LEGO Metropolis – Students collaborate to plan and create buildings, roads, and city infrastructures using building materials including LEGO® architecture bricks. They strengthen their critical thinking skills as they dig into urban planning and design engineering.

NU CTD Life Science & Engineering Pathway

Week 1: Biomimicry Challenges – Students identify an everyday problem and then take cues from nature to design a solution. Through research, low-tech prototyping and a group-based review process, they challenge their creativity and bolster their science-based design-thinking skills. Week 2: Engineering: Ancient Egypt – Students learn about engineering marvels from Ancient Egypt and then create models that incorporate physics, design and engineering principles that stand the test of time.

Nutty Nutcracker

The holiday classic - without the snow! In this course, students will jump, turn, leap, and sword fight their way through the familiar Christmas tale while exploring a variety of ballet movements as they produce one nutty Nutcracker performance on the final day. Note: No previous dance experience required. Ballet shoes may be worn but are not required; students should wear comfortable, loose clothing.

Pine Car Derby

Physics, engineering, and racing: OH MY!! Students will design and construct their own wooden car, and then race them against those of their classmates. Be the first under the checkered flag and win the Coonley Cup.

Science Olympics

Experiment and explore! This course is a hands-on science, focusing on experimentation and discovery. The world is the classroom for students as they get involved in this active learning process.

Sculpture

Fire up the kiln! Students will be introduced to a variety of basic ceramic techniques, including pinch and coil, in this beginning clay course. Be ready to display wonderful fired and glazed works of art from these budding artists.

Shipbuilding

What makes a ship float! This hands-on science course is for kids who love to sail or kids who love to build. After examining ships from dinghies to huge ocean vessels, students will design and build their own boats including a launching on the final day.

Theater Arts

Calling all aspiring thespians! This course teaches the fundamentals of theater including acting, improvisation, projection, and stage presence. The highlight is a final, fun-filled performance, which will be shared virtually with family and friends, during the last hour of class. A new play will be performed each session, so this course may be taken more than once.

Tinkrbot

Students will create and customize their own robots, incorporating a variety of electronic components that enable movement and sensing. They will learn about motors, sensors, LEDs, and Arduino minicomputer. Students will experiment and integrate these components together to develop a fully-functional robot. They will then program it to move, explore, and interact with the environment, all the while linking their experiments back to concepts around energy, forces, and interactions. Students will also learn about the role of robotics in society today. They will develop skills by solving challenges of increasing functionality of motion, sound, and light.

Ukulele

The ukulele craze started in 1915 and continues to this day! Students will enjoy learning how to play this compact and sweet-sounding instrument in just two weeks. With only four strings, students will be able to master many techniques and songs ranging from folk to pop. A virtual recital will be held at the end of the session for students to showcase their newfound abilities.

Wild and Wacky Art

Turn your creative ideas into wild and wacky art. Students will use a variety of exciting materials and techniques in combination with their unique imaginations to create fabulous works of art.

Wild Math

Sharpen math skills while playing! This course will have students playing games and creating projects which are designed to have them improve in math without knowing it - a fun way to work on those skills during the summer.

Yoga for Kids

Have fun while developing focus, awareness, and coordination. Taught by a trained yoga instructor, this class stresses flexibility and balance as students participate in imaginative poses, games, songs, and relaxation. A beneficial class for the whole body.

3rd and 4th Grade

Session 1	9:00
Brain Games	
Challenge Yourself	
Chess For All	
Fundamentals of Public Speaking	
Wild and Wacky Art	

Session 1	10:00
ADV/BEG/SWIM	
BEG/SWIM	
Beginning Basketball	
Fractured Fairy Tale: Peter & the Wolf, A	
Golden Ratio and Beyond	
Tinkrbot	

Session 1	11:00
BEG/SWIM	
Chapter Book Challenge	
Creative Concoctions	
Creative Drawing	

CTD Engineering Pathway 9-12

Session 2	9:00
ADV/BEG/SWIM	
BEG/SWIM	
Chapter Book Challenge	
Creative Concoctions	
Invention Convention	
Movin' and Groovin'	
Science Olympics	

Session 2	10:00
BEG/SWIM	
Bing! Bang! BOOM!	
Exploring Painting	
Music Theory	
Theater Arts	
Wild Math	

Session 2	11:00
Chess For All	
Escape	
It's Greek to Me	
Nutty Nutcracker, The	
Sculpture	
Shipbuilding	

CTD Life Science and Engineering Pathway 9-12

Session 3	9:00
Across the USA	
BEG/SWIM	
Exploring Painting	
Lego Science	
Music Theory	
Shipbuilding	

Session 3	10:00
Chess For All	
Creative Concoctions	
Invention Convention	
Pine Car Derby	
Tinkrbot	
Yoga for Kids	

Session 3	11:00
ADV/BEG/SWIM	
BEG/SWIM	
Brain Games	
Chapter Book Challenge	
Golden Ratio and Beyond	
Knock, Knock: SCARY Is Here!	
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CTD Chemistry and Engineering Pathway 9-12