

Challenge Camp After School Winter Workshops 2021



For those of you that are new to Challenge Camp, here are **tips for understanding our Winter After School Course Catalog:**

- 1) **Our Winter After School classes meet once a week for 10 Weeks starting the week of January 18th.** Unless otherwise noted, the classes scheduled for 4:00 and 5:00 meet for a period lasting 60 minutes and the classes that are scheduled for 4:30 meet for a period lasting 90 minutes.
- 2) We use student's **CURRENT GRADE as of September 2020** for class selection.
- 3) There are STEM & Arts Enrichment Options for you to customize a schedule based on your child's interests. **To streamline the process, we highly recommend referring to the course selection charts to guide you to the grade level appropriate classes** for each day and time slot.
- 4) The instructors will use the Google Classroom page to post supply lists and any software or apps that your student will need to install to participate in the selected enrichment activities. **Parents are responsible for ordering supplies in advance of the session.** We encourage you to order sooner as delivery and shipping times now are unpredictable.
- 5) Certain courses may have a materials fee listed. These are for class kits or projects. **Where possible, we are working on making arrangements with vendors to ship items directly to you and included this in the listed material fee.** However, there still may be additional supplies required by the instructor. For classes with significant projects, like Drone Flight School **we have listed an estimated fee. We are trying to expedite the logistics where possible, but we may ask you to place the order directly with the vendor.**
- 6) If you need assistance or have any questions, please email info@challengecamps.com or call the office 914-779-6024.

Alphabetical List – All Classes

1) Architecture and Design with 3Dux		Monday
	Grades 2-4	4:00
	Grades 4-6	5:00

Join us in this fun and informative architecture and design class. Take your ideas from schematic plans to finished builds using the 3Dux kit designed specifically for Challenge Camp. We will learn about architecture from primitive structures to golden spires and modern experimental buildings. Students will draw, design, build, decorate, and furnish structures from tiny dog houses to sprawling castles and complexes while focusing on physics, geometry, problem solving, and complex spatial thinking. The kit comes with a light set that allows for some extra bright designs and innovation.

Architecture Fee: \$50

2) Astronaut Training		Thursday
	Grades 3 & Up	5:00

Curious about outer space and want to be an astronaut? Join us for this out-of-this-world course! Students will be introduced to STEM concepts and participate in simulated astronaut training activities as they solve STEM challenges, create various forms of rockets, and journey through the solar system. Basic engineering and physics concepts will be applied to the construction of straw rockets, simple launchers and more!

3) Blender 3D Simulations		Wednesday
	Grades 4 & Up	4:00

Blender is a powerful 3D computer graphics software toolset which is used to create animated films, physics simulations, video games and so much more. Using Blender, you can create an impossible scene by controlling and animating physics: Quickly build a tower just to knock it down and watch how it falls from any angle, pour water into a glass cup and get the perfect, photo-realistic picture as it splashes out, write your name in big 3D letters and then hit it with a wrecking ball - smashing it into a million pieces! Computer creativity and imagination is all you need to produce endless animated possibilities.

* Students must be on a PC or Mac

4) BOLD Pop Dance		Tuesday
	Grades All Grades	4:00

This vibrant class blends the energy, freestyling, storytelling and power of hip hop and breaking, with jazz technique, while embracing the creativity of the dancers. Students will develop musicality, choreographic skills, strength, teamwork and confidence both onstage and off. A signature of all BOLD Arts programs is that each person's individual strengths and personality shine through the work we create together. All students will have the opportunity to perform at the end of the session. *Taught by BOLD Arts.*

5) Crazy Chemistry Science Adventures

		Tuesday
Grades	K-2	4:30
Grades	2-4	5:00

In this engaging science class will have you making bubbling mixtures, toppling towers, racing vehicles, exploring outer space, testing chemical reactions, learning science magic tricks and so much more. Using experiments, demonstrations and hands on activities, we will explore real world scientific principles. Your child will be guided through fun interactive hands-on science activities in your own home. A packet of supplies will be sent to your scientist at the beginning of the term. *Taught by Dazzling Discoveries.*

Chemistry Fee: \$30

6) Dance a Story

		Monday
Grades	K-2	4:00

In this class, young dancers will bring books and stories to life. Children will dance along and be given a prompt to create their own choreography, using the story. Cha Cha and Tango with *Giraffes Can't Dance*, create flashlight solos with *Firenze's Light*, dive into a painting with *Flyaway Katie*, and more! The class is active, interactive, and filled with opportunities to create. *Taught by BOLD Arts.*

7) Dancemakers

		Monday
Grades	3-6	5:00

This innovative class blends multiple modern dance techniques and basic dance composition skills that give dancers the tools they need to create their own exciting routines. Dancers expand their understanding of modern dance, build strength and coordination, develop creative problem-solving skills, and learn unique ways to approach choreography. Each performer's unique creative vision is celebrated as they choreograph, collaborate, and create! *Taught by BOLD Arts.*

8) DoodleMatic Game Maker

		Wednesday
Grades	K-3	4:00

Have you ever wanted to create your own video game? Do you like to doodle or draw? In this class you will learn how to make your very own video games using DoodleMatic Game Maker! All you need to do is draw and then watch your doodles magically come to life as playable games. The students will learn and use the exciting new DoodleMatic App and all of it's editing and Power-Up features! This exciting class will teach children game mechanics and concepts through STEAM and literacy exploration and mini drawing lessons! At the end of the session the students will have a collection of games they created from the stories, characters, goals, worlds, hazards and game challenges developed in class.

DoodleMatic Kit Fee: \$30

** Requires a tablet or mobile device to install the free Doodlematic App

9) Drone Racing Simulation League

Grades 4 & Up Tuesday
4:00

Our drone racing cadets will train for one of the hottest and fastest growing e-sports in the nation; right in your own home. Once registered and set up, the racers will familiarize themselves with the controller and the online simulator platform. By practicing the course, they will learn racing capabilities and procedures to compete in weekly league races. Throughout the Fall, students will have access to tutorials, mentors, workshops, tech support and unlimited simulation racing. As the pilots progress, they can unlock additional courses and drone components to make the racing more challenging and help improve their times. The Drone Racing Simulation League helps students learn drone flying skills while remaining highly challenged and engaged.

* Estimated Course Equipment, Software License & League Program Fees: \$150

10) Dungeons & Dragons

Grades 3 & Up Thursday
5:00

If you can imagine and think of lands and magical creatures, then you can role play Dungeons & Dragons. Learn the basics of D&D theater of the mind and apply them in an adventure. Mysterious places, magical items, and many surprises lie ahead.

11) Easy Weeknight Dinners

Grades 4 & Up Monday
4:30 – 6:00

Wouldn't it be fun to take over dinner one night every week? Become a better home chef while helping out your parents in the process. We will create fun and delicious meals such as meatloaf with homemade macaroni and cheese or chicken parmesan and host theme nights such as taco night or make your own pizza night!

12) The Illusionist

Grades 1-4 Tuesday
4:00

Have you ever wanted to make a coin disappear, read someone else's mind, make solid objects pass through each other or cause a rope cut in two to magically restore itself? Learn how to do this and much more by joining renowned magician Joseph Fields to uncover magic's biggest secrets, fool your friends and be the life of the party. The delightful art of balloon sculpture will also be taught.

Transform yourself into an illusionist with a personalized magic briefcase full of tricks!

Magic Fee: \$40

13) Iron Chefs Make Dinner

Grades 4 & Up Wednesday
4:30 – 6:00

Elevate your chef skills to the next level as we go beyond simple recipes to make more complex appetizers, salads, entrees, and desserts just in time for dinner. Seasonal ingredients and vegetables, healthier ways of cooking with less oil and sugar will be highlighted whenever possible.

14) Kitchen Chemistry

Grades 3-5
Wednesday
5:30

Everything that happens when we cook food is a chemical reaction and many ingredients that we use are chemical compounds. Join us and witness color changes with natural pH indicators such as cabbage juice, make invisible ink from household materials, create a lava lamp, make ice cream without needing an ice cream maker, and separate different pigments from a leaf or a sharpie. Behind all these fun and easy experiments there are fundamental chemistry concepts, including density, decomposition and synthesis, crystallization and polymerization, and reduction-oxidation. We will also learn about physical phenomena such as diffusion, osmosis and chromatography.

15) Mini Space Explorers

Grades K-2
Thursday
4:00

Curious about outer space? Want to be an astronaut? Join us for this out-of-this-world class! Students will learn about the solar system, the moon, rockets and more as we journey through the solar system! We will create art based on our intergalactic travels and new knowledge using markers, cut paper and supplies you have at home.

16) Painting the Masters

Grades 4 & Up
Thursday
4:00

An instructional and magical painting class inspired by the great French masters Paul Cezanne and Henri Matisse. We will create our own beautiful acrylic paintings from studying their different techniques of color, drawing and style.

17) Roblox Game Developer

Grades 4-7
Wednesday
5:00

Roblox is one of the largest online gaming platforms, with millions of games created by its users. Students will learn to use the Roblox Editor and the Lua coding language to create adventures which can be published to smartphones, tablets, desktops, or consoles. They will explore programming concepts such as loops, arrays, and more on their journey and will learn fundamentals of game making including game mechanics and level design.

* Students must be on a PC or Mac