2020 FLASH PRO Course Catalog

Entering Grades 5-8

Courses listed in alphabetical order

3D-GRAPHIC DESIGN

Using Tinkercad, a free online computer program, we learn 3D design techniques used in various industries such as films, animation, and gaming. This course will introduce basic concepts of 3D graphics that focuses on modeling 3D characters and virtual environments; using geometry, materials, and effects. This course is an excellent option for anyone who ever wanted to prototype an invention, create a work of art, customize a product, or just make something cool.

Materials Needed: Device w/ Internet to use Tinkercad, a free online program, notebook, and pen/pencil.

ACTING!

Students in the ACTING class will have fun every minute developing their confidence and acting skills through theatre games, improvisation, and monologues. Together we will learn to create different characters and tell stories. The class will also produce a fun virtual play!

Materials Needed: Students use costume pieces and props from home. No extra supplies need be purchased!

ARTISTIC ADVENTURES

This course includes activities in drawing, painting, printmaking, ceramics, sculpture, and other 3D designs suited to the abilities and interests of the individual student.
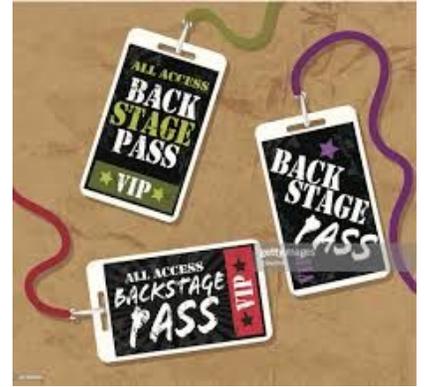

Materials List: White drawing paper - 11x14 is best (not computer paper) , Colored construction paper (available on Amazon), Pencils, Erasers, Scissors, Glue, Masking tape, Paintbrushes (multiple sizes), Tempera Paint (red, yellow, blue, black, white: feel free to get other colors), Crayons and/or Colored, Pencils, Black Sharpie. Collection of magazines, newspapers, and cardboard. Household items such as paper towel rolls, toilet paper rolls, paper plates, and cups for water. Optional: Watercolor paints

BACKSTAGE PASS

Learn all of the ins and outs of being a production team member in the theatre! We will learn how to make designs for props, hair and makeup, costumes, scenery, and more for a professional theatre production. Experience gained in this class can prepare you for future participation in our LCJSMS and SHS theatre programs!

Materials Needed: Device with Internet access, drawing paper, coloring utensils, school glue, hot glue gun, thread, spare fabric (e.g. felt, cotton blends), and various embellishments (e.g. rhinestones, beads, fabric paint)

BAND 2.0: INTERMEDIATE

Students will be able to continue playing their instruments in a virtual format this year! They will learn new skills and be exposed to fun, new music. This course will be for students who have at least one year of experience on their instruments.

Materials Needed: Instrument, method book (Accent on Achievement), Device with Internet - all other materials will be provided digitally

Summit Schools and FLASH have a strong relationship with Elefante Music in New Providence. They are open! More Information regarding musical instrument rentals will be available soon on summitflash.com.

BAND: JAZZ FUNDAMENTALS

Swing into "America's Original Art Form" through group lessons for saxophone, clarinet, and flute.

Materials Needed: Instrument, method book (Accent on Achievement), Device with Internet - all other materials will be provided digitally

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BASKETBALL ACADEMY

We give kids the opportunity to develop their basketball skills in a positive, fun, and organized online-learning atmosphere. By using videos, lessons and the Home Court App. Athletes are encouraged to stay active and compete with each other by playing basketball in the comfort of their own home. Athletes participate in shooting challenges, ball handling, skill competitions and more, while receiving feedback from their coaches.

Materials Needed: Basketball and Home Court App.
Optional: Driveway Hoop

FLASH 2020

BEHIND THE SCENES: VIDEO & MOVIE PRODUCTION

If you are looking to be in front of or behind a camera, this is the course for you! Students will choose between multiple projects including a video documentary, news broadcast or feature report. They will learn how to research, write, and map out their script as well as how to film, edit and produce the final project.

<u>Materials Needed</u>: Device w/ Internet, WeVideo (web-based), and iPhone or other video recording device.
<u>Optional</u>: Printer

COOL COOKING*

Did you ever think you could make s'mores pops, delicious fruit pizza, granola bars and an egg sandwich without a stove or an oven? Well if you take the Cool Cooking class this summer, you will be your family's new favorite chef, whipping up breakfast, lunch, dinner, snacks and dessert for everyone you love!

<u>Materials Needed</u>: Cutting Board, Mixing Bowls (at least 3), Microwave safe bowls and plates, Cookie Sheets, Aluminum Foil, Parchment Paper, Utensils, Wisk, Spatulas, Wooden Mixing Spoon, Can Opener, Scissors, One Pot, One Pan, 8 or 9 inch square pan, Plates (to serve), Popsicle Sticks, Microwave (for select recipes) Ziploc Baggies (Gallon Size), Measuring Cups and Spoons, and Kid-Safe Knives - Curious Chef 3-Piece Knife Set

https://www.amazon.com/Curious-Chef-TCC50029-3-Piece-Nylon/dp/B002Q5YH9C

*Recommended grocery items will be announced beginning of June. Most items are regularly purchased items like milk, butter, eggs, cheese
*Some additional parent supervision may be required at times

FIELD HOCKEY ACADEMY

In this course you will gain confidence and strengthen your ability to move with the ball. You will learn/enhance your push pass, slap, flick, dribbling, dodging and jabs. By the end you will feel confident running around with the ball on your stick.

<u>Materials Needed</u>: Field Hockey stick, mouth guard, balls, 8 cones- (you can use anything), and open space.

IMAGINEERS

Imagineers is a STEAM-based course that teaches students the Engineering Design Process. Students will be issued weekly challenges where they will have to design, build, test, and evaluate prototypes similar to the way an engineer would. This course teaches students to be creative, think outside of the box, persevere, and develop critical thinking and problem-solving skills.

Week #1 - Sled Design: Design a sled that carries ping pong balls from the top to the bottom of a 12-inch slope.
Week #2 - Witch's Parachute: Design a parachute that safely lands a hard-boiled egg from a 4-feet drop.
Week #3 - Pipe Cleaner Structure: Design structure to support a cup of 30 pennies 4in off the table.
Week #4 - Tallest Pencil Tower: Design the tallest tower to support the weight of an apple at the top.

Materials Needed: cardstock, paper plates, dixie cups, dental floss, yarn or rubber bands, duct tape or glue, foil, straws, craft sticks, paper clips, toothpicks, scissors, pencils, pipe cleaners, 30-50 pennies, tape, ruler, masking tape, apple, coffee filter, and wax paper

INVENTOR'S WORKSHOP

Build hands-on STEM projects using math, science, technology and engineering principles. You will become real engineers and see your projects come to life through problem-solving, grit, and imagination.

Week #1 - Catapult Challenge: Invaders are coming! Defend the city! Who can launch their marble farthest?
Week #2 - Automata Toy Challenge: Build a flying bird, wiggling snake, or dancing skeleton.
Week #3 - Gadget Challenge: Let's use the 6 simple machines and see what crazy ideas we can invent.
Week #4 - Summer Game Challenge: Design a pinball game for fun the whole family can enjoy.
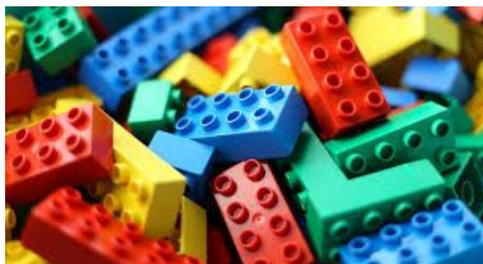
Materials Needed: 8 1/2" x 11" paper, scotch/masking tape, hot glue gun preferred, straws, rubber bands, marbles/ping pong balls, boxes, paper clips, pliers, scissors, ruler, and a water bottle

LEGO MOVIES AND CHALLENGES

Use your Legos (and other toys and items) to complete challenges and tell stories. Students will be challenged, inspired, and taught to use Legos to make short stop motion animation style movies, create Rube Goldberg machines, solve real life problems, make games, and more! Students will use a variety of Chromebook applications and sites such as Flipgrid, Stop Motion Animator, and WeVideo to create and share their projects.

Materials Needed: Legos, Lego Minifigures, and a Lego baseplate Optional: In addition to Legos, you may also add other small figures, toys, cardboard, tape, and basic household art supplies to complete your projects.

MINDFULNESS & ME: YOGA, MEDITATION & MORE!

This course includes a combination of activities that have incredible physical and mental health benefits, including yoga, meditation, and some group dances, such as Zumba. Yoga improves your flexibility, balance, endurance and strength, while meditation helps to relieve stress and keep the mind sharp and clear.

Materials Needed: Device w/ Internet and an open space to move around.

PODCASTING AND BROADCASTING

Do you have the next YouTube star at home? If so, this is the place for you! We will learn how to create our own audio podcasts and news broadcasts. Let us help you on your journey to stardom! The world of storytelling is becoming more popular with digital platforms. Students will learn how to research, write, and collaborate to publish their podcast in the digital world. They will also be taught how to edit and enhance their podcast by adding background and transition music.

Materials Needed: Device w/ Internet to use free online programs (e.g.GarageBand, Audacity, and WeVideo)
Optional: Headset with microphone and/or a recording device (e.g. Digital camcorder, Smart Phone, etc.)
Having those items will improve your product, but are not required to have a successful experience.

ORCHESTRA 2.0: INTERMEDIATE AND ADVANCED | See the Orchestra Catalog on the FLASH 4-8 page at http://www.summitflash.com/flash4-8

For students with at least one year of experience playing the Violin, Viola, Cello, or Bass. Come explore new, exciting songs that can you easily master on your way to exploring more challenging songs written specifically for YOUR instrument. Everyone, even you violas, will get the melody! We will interact using a mix of Google Classroom, FlipGrid, Google Meet, and other programs.

Materials Needed: Properly Sized Instrument Outfit (e.g. 1/2 Violin, 12" Viola, 1/4 Cello, 1/8 Bass, etc.) including: Instrument, Case, Bow, and Rosin. If you do not already have an instrument, DO NOT buy from eBay, Amazon, etc. as instrument quality is often unreliable and may affect performance. Private rental is STRONGLY encouraged, so you may return to the store if repairs are needed. New Directions for Strings Book 1 (For the appropriate instrument: Violin, Viola, Cello, or Double Bass A Position). Music Stand. Device w/ Internet access, webcam, and microphone. Optional: Extra set of strings for the appropriate instrument and size.

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SCRAPBOOKING

Scrapbooking: Time to gather pictures and showcase your memories! You will have the opportunity to learn some new and creative ways to display your treasures in your very own scrapbook. Your teacher will assist you in creating some innovative layouts to showcase your special mementos in a scrapbook.

Materials Needed: Photos- at least 20 of the students' choice, Scrapbook- 13.5x12.5 Inch is best, scrapbooking paper- can be colorful 12 X 12 paper- at least 20 sheets, assorted stickers- travel, sports, animals, etc.- at least 50 , scissors, glue sticks- at least 3, set of colored pencils/gel pens/fine tip markers, construction paper - assorted colors - at least 20 pieces, ruler, 2 pencils, tissue paper- assorted colors and squares if possible
Optional Materials: Extra stickers, Extra writing materials, Washi tape, Sequins, Stencils- letters, Hole punch, Fancy scissors, Ribbon, and Color printer

SKETCHBOOK YOUR WORLD

Fill your sketchbook! Capture the world around you by creating your original art! This is a defining experience for any young artist. Students fill a sketchbook with a variety of mediums from pencil drawings and watercolors to collage with sun-made photo prints.

Materials Needed: Sketchbook, Watercolor Set, Pencils, and Ruler or Straightedge

SEW COOL

Create fun projects using a variety of hand sewing techniques (blanket stitch, running stitch, etc.)

Materials Needed: One regular sewing needle, one embroidery needle, a few straight pins, sharp scissors, Embroidery Hoop about 4-5" across, Sewing thread, at least two colors, Embroidery Floss - 5 colors, Aida Cloth - This is embroidery cloth, at least a 12" x 24 " piece, Two 18" x 22" pieces of cotton fabric , Felt - At least 5 - 8" x 12" rectangles in a variety of colors, Small amount of Poly Fiber-Fill - This is for stuffing. Optional: Mason Jar

SOUNDATIONS: DIGITAL MUSIC PRODUCTION

Do you want to learn how to become your very own music producer? Want to learn how to make a beat drop? This class will teach you how to build your OWN songs using the same techniques that all real electronic artists use. Song-writing and music fundamentals will be taught alongside how to record audio and a myriad of other musical skills and concepts. Beginners welcome! Let's unlock your inner artist and make some music together!

Materials Needed: Device w/ Internet. Free software will be provided.

SUPER SCIENCE

Learn to stretch the limits of science! Participate in challenging hands-on science activities that promote creativity and outside the box thinking. Prepare to make a new discovery!

Materials Needed: Household items - empty water bottles, food coloring, cooking oil, blocks, toilet paper rolls, spaghetti, marshmallows, tape, and scissors.

ULTIMATE FITNESS CHALLENGE (UFC)

Do you want to get stronger?.....Faster?.....Better at sports? Well then you have come to the right place! Let's work out together. Each day we will do a CrossFit style workout for kids! I will explain each exercise and model how to do them correctly and safely.   Work at your own pace, and take the challenge to become the very best version of yourself that you can be!!!!

Materials Needed: We will focus on body weight exercises. Jump rope, yoga mat or other cushion for hard surfaces.

WORLD OF WIZARDING

You've been transported out of the Muggle world and into the wizarding world of Harry Potter. It all begins after you are mailed acceptance letters that prepare you for a magical experience that is yours to decide. Witches and wizards are sorted into Houses, brew famous potions, create magical creatures, practice spells, see into the future with Divination, and compete in trivia challenges.

Materials Needed: modeling clay in various colors, drawing materials (paper, colored pencils, markers). Ingredients for "potions: dish soap, milk, food coloring, glue, 1 cup of liquid starch, pretzels, vinegar, glitter, baking soda, hydrogen peroxide, 3 Tbsp (1.5 oz) of yeast, Sprite, and any flavor of sherbert.

YOU CAN CODE!

Students will be introduced to coding with algorithms, loops, conditionals, and events before they are introduced to functions. Throughout the class, creations will consist of items such as games, art, and digital stories that they can share, while developing problem-solving, persistence, and computational thinking skills

Materials Needed: Device w/ Internet.