3D Printing, Digital Fabrication, and Design Challenges - Introducing Primary Kids to an Essential 21st Century Skill!

Instructor(s): Justin Towner

Grade: 1-2  Offering: Week 1 PM
Enter into the world of 3D Printing and Digital Fabrication as we engineer through the design process to learn all about these amazing and exciting mediums! As an introductory course for primary elementary students, we will focus on learning the software of Tinkercad for 3D printing and Easel for our Carvey digital fabrication machine. Students will produce hands on and ready to use bookmarks, maze games, and Carvey tiles showing “All About Me” to name only a few projects. Join us to begin learning these exhilarating 21st Century skills!

Code Crazy!

Instructor(s): Justin Towner

Grade: 1-2  Offering: Week 2 PM
Code Crazy! is a venture into the wide world of coding for primary elementary students. Coding is all around us each and every day, and will be a necessary 21st Century skill for all learners. Dive into online coding activities through code.org and makecode.org using Micro:Bits! Design a security system for your favorite fictional character using Ozobots and draw coding through a creative STEM challenge. We will learn a variety of coding languages as we go Code Crazy!

For the Birds

Instructor(s): Troy Becker

Grade: 1-2  Offering: Week 2 AM
Explore everything birds! You will get to be an Ornithologist for the week. This problem based inquiry class will focus on adaptations, migration patterns, comparisons, geography, measurement and much more!

Design Your Own Fairy Tale Video Game

Instructor(s): Jeff Heroux and Dan Clark

Grade: 1-2  Offering: Week 1 AM
In this project based learning opportunity, students will experience the process of creating a video game. Students will use a fairy tale/folk tale and create a game based on the story and characters from that tale. Students will then bring their game to life using the STEM tool Bloxels.

Color Theory

Instructor(s): Celeste Deal

Grade: 1-3  Offering: Week 1 AM
Come and discover the world of color this summer in this dynamic class exploring the theory of color. Students will work with the color wheel and learn about primary, secondary, and tertiary colors. They will also learn how to use these colors to create desired outcomes from harmonious, to loud and exciting.
Minecraft: Redstone Basics  
**Instructor(s): Cary Joice**  
**Grade: 1-3**  
**Offering: Week 1 AM; Week 2 AM**  
Hey, Minecrafters! Are you curious about how to use Redstone to make your buildings more automatic? Wouldn't it be nice to have a farm that could harvest and sort all your crops on its own? Take this course to learn about Redstone--Minecraft's version of electricity--and how it can enhance your builds and teach you about the real world!

Sports Camp  
**Instructor(s): Jeff Gaede**  
**Grade: 1-3**  
**Offering: Week 1 PM; Week 2 PM**  
Analyze what type of athlete you are! Experience aerobic and anaerobic challenges, fitness stations, develop leadership skills, and learn how to leverage your strengths and weaknesses. Learn how fitness impacts your body both mentally and physically. Build your collaboration skills through various sports and physical activities.

Famous Artists  
**Instructor(s): Callae Mock**  
**Grade: 1-3**  
**Offering: Week 1 AM**  
In this class students will explore the world of art history as well as create their own masterpieces. Students will learn about different styles of art from impressionism, surrealism, pop art, abstract expressionism all the way to contemporary modern art and all about the famous artists that exemplified these revolutionary art styles. Each day one or two artists will be studied and students will get a chance to analyze their artwork. After exploring the works, students will be able to create their own masterpiece using several different mediums from drawing, watercolor painting, tempera painting and collage. This class is a great introduction to art history and kids can look forward to some fun, hands-on, and creative activities!

Elements of Art  
**Instructor(s): Celeste Deal**  
**Grade: 1-3**  
**Offering: Week 1 PM**  
Develop your art smarts in this introductory class to the elements of art. Students will be learning about the different aspects of art and how artists create meaningful and beautiful art using the basic elements of visual arts. The week will be filled with painting, creating, drawing, and working with others. The week will end with a gallery showing on Friday for friends and families.

Escape Room  
**Instructor(s): Joel Silver & James Rodgers**  
**Grade: 1-3**  
**Offering: Week 1 AM/PM; Week 2 AM/ PM**  
Do you ever feel like you just need an escape? Do you love using your mind to solve complex issues? Plan, trick, and puzzle your way through the room by setting up a variety of riddles to create the ultimate escape room experience.
MAKER Mogul
Instructor(s): Ryan Remien
Grade: 1-5  Offering: Week 1 PM; Week 2 PM
Do you have an idea for the must have product of Summer 2019? In MAKER Mogul, you will go through the entire New Product Development Process and create a product ready to roll-out in one week. Students will have access to crafting materials to create a prototype, a vacuum former to develop packaging, a mold for their product, a Milling Machine and Laser Engraver to create an amazing package! Along with learning to use software and machines currently used in product development, students will also work to create advertising campaigns ready to convince the world to invest in their product!

Chess Masters
Instructor(s): Todd Bardwick
Grade: 1-6  Offering: Week 2 AM
Jump on board with this beginning/intermediate class! Students will be taught chess strategy, tactics, and etiquette by National Chess Master Todd Bardwick. Begin with the fundamentals and basic rules used in tournament play. Learn to apply chess concepts in the opening, middlegame and endgame. Master strategy along with tactics and etiquette.

Advanced Chess Masters
Instructor(s): Todd Bardwick
Grade: 1-6  Offering: Week 2 PM
*Prerequisite: Must have already completed Chess Masters or be an advanced/experienced chess player. Students cannot be enrolled in both Chess Masters and Advanced Chess Masters at the same time. Students will be taught chess strategy, tactics, and etiquette by National Chess Master Todd Bardwick. If you're looking for a challenge and would like to amp up your game of Chess, this class is for you! Students will be introduced to complicated tactics, advanced strategies, and thinking patterns that chess masters use to play the game in the opening, middlegame, and endgame. Complex chess variation analysis methods will be taught, and instruction will include selected positions and games that show advanced chess concepts.

Kiddie Kitchen Chemistry
Instructor(s): Jamie Ojeda
Grade: 2-3  Offering: Week 1 AM
Students will create kitchen chemistry experiments and messy explosions using common kitchen items. This course will include creating a baking soda powered boat, exploring enzymes and proteins with Jello, and much more. Students should bring a smock to cover their clothes. An adult t-shirt is great. Each student will also need to bring a 4oz. disposable water bottle and an 8oz. disposable water bottle.

Design Your Own Video Game: From Idea to iPad
Instructor(s): Jeff Heroux and Dan Clark
Grade: 2-3  Offering: Week 1 PM
In this project based learning opportunity, students will experience the process of creating a video game. Students will work to develop the story, characters, and settings of a unique game from their own imagination. Students will then bring their game to life using the STEM tool Bloxels. They will create unique characters, a narrative for their game, create the artwork, code the game, publicly present their work, and engage in a peer review process.
Ukulele: 1-2-3 Strum A Chord With Me!
Instructor(s): Gwen Schulte
Grade: 2-3  Offering: Week 2 AM; Week 2 PM
In this course, student musicians will learn at least 10 songs to play on the ukulele. Songs range from childhood favorites to current hits. Students may learn at their own pace as the course is designed to support their musical interests and skill building.

Mapping the Night Sky
Instructor(s): Troy Becker
Grade: 2-3  Offering: Week 2 PM
In this class students will learn about constellations and asterisms in the night sky. We will study different aspects of visualizing their figures and how to recognize at least 4 or 5 guideposts for night sky exploration. Students will create a presentation board to show off specific asterisms or constellations and what they have learned and created over the week.

Minecraft: Advanced Redstone
Instructor(s): Cary Joice
Grade: 2-4  Offering: Week 1 PM; Week 2 PM
Hi, Minecrafters! Are you wondering how to take your builds to the next level? Are you curious how those crazy cool YouTubers build all their crazy cool contraptions? Take this course to learn MORE about how Redstone can take your Minecraftering to the next level!

Taekwondo
Instructor(s): Chris Turnquist
Grade: 2-6  Offering: Week 1 AM; Week 2 AM
Be part of something that is over 2,000 years old. You will learn the history of taekwondo while practicing the five areas of taekwondo: Bully Basics, Self-Defense, Forms and Blocks, Kicks and Board Break, and Pad Drills. Through this high energy class, you will have the knowledge of a yellow belt by the end of the week.

Engineering A Biodome
Instructor(s): Megan Koopman
Grade: 3-4  Offering: Week 1 AM/PM; Week 2 AM/ PM
In this course, students will explore environments, ecosystems, energy flow and organism interactions by creating a scale model biodome. The first 2 days, students will research and explore environments, energy flow, food chains, basic needs of plants and animals, and the importance of decomposition. Then throughout the last 3 days students will use what they have learned to build a model biodome following the steps of the engineering design process.

Yoga for Young Scholars!
Instructor(s): Kyra Matthews
Grade: 3-5  Offering: Week 1 AM; Week 2 AM
It's a big, beautiful, complicated world! Every so often, school/screens/stress can get the better of us. Luckily, every one of us has the power to find and cultivate a peaceful place within. Yoga for Young Scholars will teach the foundations of deep breathing and movements to alleviate stress. We will explore mindfulness as a way to manage our emotions and do better in school. This class will combine everything you love about PE, art, music, performance, health, and inner peace.
8-Bit Hero
Instructor(s): Ryan Remien
Grade: 3-5   Offering: Week 1 AM; Week 2 AM
Calling all gamers! Do you have a passion for playing video games? Have you ever considered creating your own? In 8-bit Hero, we will design, program, and develop multiple video games ready to publish and share with the world. Your future in game-design starts now!

Stop Motion Story Telling
Instructor(s): Naomi Meredith
Grade: 3-5   Offering: Week 1 AM; Week 2 AM
Blend your storytelling skills and your passion for LEGO. You will have the opportunity to merge your LEGO building creativity with different types of technology such as green screen and stop motion. Previous experience isn’t necessary for this exploratory club.

Knowledge As An Escape!
Instructor(s): Kelly Burger
Grade: 3-5   Offering: Week 1 AM/PM; Week 2 AM/ PM
Do you ever feel like you just need an escape? Do you love using your mind to solve complex issues? Are you someone who wants to develop leadership skills while having fun? Have you always wanted to participate or create an escape room? If you said yes to any of those questions: Come join us in Knowledge As An Escape where we will: Have fun, solve logic puzzles, collaborate, create, and so much more!

Coding, Robotics, and STEM... Oh My!
Instructor(s): Justin Towner
Grade: 3-5   Offering: Week 1 AM
Learn what, where, and how coding languages are used in our everyday lives! Learn coding languages to operate Ozobot and Sphero robotics through a variety of hands-on challenges. Explore coding websites including Code.org and Scratch coding to build stories, games, apps, and more. Transfer all these coding skills to complete and create mathematical and engineering design challenges such as a robotics golf course!

Sports Camp
Instructor(s): Jeff Gaede
Grade: 3-5   Offering: Week 1 AM; Week 2 AM
Analyze what type of athlete you are! Experience aerobic and anaerobic challenges, fitness stations, develop leadership skills, and learn how to leverage your strengths and weaknesses. Learn how fitness impacts your body both mentally and physically. Build your collaboration skills through various sports and physical activities.

Paper Palooza
Instructor(s): Celeste Deal
Grade: 3-5   Offering: Week 2 AM
Come explore paper as an art form. Students will be creating works of art using paper as the main media. They will create beautiful works full of color and pizzazz. Students will be learning about basic techniques, vocabulary, artists, and color theory. Students will be creating their own Art Gallery for parents and families to view.
3D Printing, Digital Fabrication and Design Challenges - Making The World A Better Place
Instructor(s): Justin Towner
Grade: 3-5  
Offering: Week 2 AM
Enter into the world of 3D Printing and Digital Fabrication as we engineer through the design process to solve challenges big and small! With a focus on problem solving, both personal and world issues, we will use 3D print and digital fabrication projects to creatively and collaboratively invent solutions through the Engineering & Design Process. Through Tinkercad and Easel software, students will produce hands on replicas of ideas and inventions. Join us and take this exciting 21st Century skill to the next level!

Water Color Techniques
Instructor(s): Celeste Deal
Grade: 3-5  
Offering: Week 2 PM
Come and learn the basic techniques of painting with water colors while creating beautiful works of art. Students will be creating works that use the basics of drawing and color theory while learning how to paint with water colors. The class will conclude with a family gallery walk where students will share their works and communicate the different techniques they learned.

The Great Show Choir!
Instructor(s): Jamie Ojeda
Grade: 3-5  
Offering: Week 1 PM
Come sing and perform to your favorite songs from The Greatest Showman. We will end the week with a concert performance for parents! Students will learn words and actions to their favorite Greatest Showman songs. We will include simple choreography, solos, duos, and group singing. In addition to working on the performance piece, we will work on warm-ups, proper singing technique, voice projection, articulation, how to stand on risers to perform, and facial expressions.

Energize Me!-Exploring Different Types of Energy
Instructor(s): Naomi Meredith
Grade: 3-5  
Offering: Week 1 PM; Week 2 PM
Have you ever wondered how a battery works, or what really is happening when you turn on a light switch in a dark room? Or have you ever thought about how electricity has been helpful in the way people communicate? In this course students will code a music machine as well as a circuit, and learn how to build a Morse code machine. Students will document their learning in a digital journal.

Get Your Game On
Instructor(s): Jeramie Green
Grade: 3-5  
Offering: Week 1 AM; Week 2 AM
Make real-world connections while we play fun games. Can you build the tallest tower? Will you avoid being eaten by sharks? We will learn about the seven habits of healthy kids: synergize, sharpen the saw, think win-win, first things first, begin with the end in mind, be proactive, and seek first to understand - then to be understood. Join us for a playful and awesome start to summer!
Contemporary Artists
Instructor(s): Callae Mock
Grade: 3-6          Offering: Week 1 PM
In this class students will explore many of the contemporary artists that are currently working today: Yayoi Kusama, Kehinde Wiley, Chris Uphues, Dean Russo, Jen Aranyi, Lina Iris Viktor, Greg Mike, Jen Stark, Jen Aranyi and Jim Dine. They will learn about a few of these artists each day and after analyzing and discussing their work, they will be challenged to create pieces inspired by those artists. Students will also be using different media to create their artwork from drawing with marker and oil pastel, painting with watercolor and tempera paint, creating paint with chalk, and even sculpting with foil, plaster and paper pulp. This class will be a great place for students to learn about working and living artists from many different backgrounds and be inspired to create several different masterpieces!

HydroLogic
Instructor(s): Chris Turnquist
Grade: 3-6          Offering: Week 1 PM; Week 2 PM
What would you drink if you were stranded on a desert island? What if you lived in a village without clean water? What if there was an oil spill in the water in which you relied on for survival? In this environmental engineering class, we will dive into these problems through hands on investigation. You be the engineer!

Operation: Shark Tank
Instructor(s): Charles Kastens
Grade: 3-6          Offering: Week 1 PM; Week 2 PM
Calling all young entrepreneurs! Do you have a big idea for a small business of your own? During the week, students will learn about the basics of starting a small business. They will read a variety of books to help develop a small business plan. The highlight of the week is the Shark Tank style presentation during Showtime!

Escape Room & Code Breaking
Instructor(s): Dr. Derek Phelan
Grade: 4-5          Offering: Week 2 AM; Week 2 PM
Each day students will use critical thinking skills to break codes and perform a type of breakout room. Students will need to collaborate and communicate effectively to break out of the rooms. Each day students will have time to put their creativity to the test to create their own breakout room, which will be performed by parents on the final day.

Lights, Camera, Action!
Instructor(s): Jeramie Green
Grade: 4-5          Offering: Week 1 PM; Week 2 PM
Start your summer with your creative juices flowing. Join us for an amazing week as we write a script, build a set, design props, and perform. We will also engage in a ton of fun acting games! The big project of our week is creating an alternate ending to a drama. How will your team solve the problem in the story?
Hogwarts! Hogwarts! Hoggy, Hoggy, Hogwarts!
Instructor(s): Jamie Ojeda
Grade: 4-5  
Offering: Week 2 AM; Week 2 PM

ATTENTION ALL WIZARDS AND WITCHES! Do you have a Harry Potter fan at your house? Then, Hogwarts Camp is for them! This camp is for the experienced Harry Potter book readers, as it will be full of magical activities, character studies, script writing, acting and poetry. This class will include SPOILERS, and the more you know about Harry Potter, the better your House will do at earning House Points and making your way toward the House Cup. Students will be sorted into the four Hogwarts Houses: Gryffindor, Ravenclaw, Hufflepuff, and Slytherin by the Sorting Hat and work as a team. Students are encouraged to wear their favorite Harry Potter clothing or costumes throughout the week. This class is sure to leave students with a love for the Wizarding World of Harry Potter! PLEASE BRING A NEW SPIRAL NOTEBOOK TO CLASS FOR NOTETAKING.

Fantasy Sports Dream Team Draft Week
Instructor(s): Charles Kastens
Grade: 4-6  
Offering: Week 1 AM; Week 2 AM

Each day, we will conduct a “fantasy” draft in each of the four major sports, based on lists of the all-time greatest players. Teams compete against Mr. K to see who knows how to build the best roster possible! This class is a great way to learn about the history and the greatest players from the NFL, MLB, NBA, and NHL - all while practicing and refining math and problem solving skills!

3D Landscape Painting
Instructor(s): April Green
Grade: 5-7  
Offering: Week 1 PM; Week 2 PM

Calling all artists! Come and take your artistic talents to the next level. We will be designing and painting a 3D landscape that pops off the page. Learn how to apply a new painting technique called "dry brushing" to bring out textures and patterns in the painting.

Lego STEM Robotics 101
Instructor(s): Bryan Winterhalter
Grade: 5-9  
Offering: Week 1 AM; Week 2 AM

In LEGO Robotics, we will focus on building a MINDSTORM EV3 Robot and learn basic programming. In addition, students will program the robot to use light, ultra-sonic and touch sensors. By the end of this session, students will know how to program a robot to complete a variety of tasks designed to test all skill levels. This class is designed for the LEGO Robotics beginner.

Advanced Lego STEM Robotics
Instructor(s): Bryan Winterhalter
Grade: 5-9  
Offering: Week 1 AM; Week 2 AM

In Advanced LEGO Robotics, we will focus on designing a MINDSTORM EV3 Robot and learn advanced programming. In addition, students will program the robot to use light, ultra-sonic and touch sensors. By the end of this session, students will increase their expertise on coding a robot to complete a variety of tasks designed to challenge their skill levels. Tasks include, but are not limited to, FLL challenges tables, battle bots and challenge obstacles.
STEAM! Science, Theatre, and Rap
Instructor(s): Alexa Wynschenk & Charles Remillard (Week 1); Alexa Wynschenk (Week 2)
Grade: 6-8  Offering: Week 1 AM/PM; Week 2 AM/ PM
Do you want to act, build, design and rap in your own original production? In this fun and exciting new course, students will create original stories based on untold scientific happenings or concepts. Participants will experience improv games, rap construction, theatrical design, scientific research, and engineering design. Be like Lin Manuel Miranda and create and build your own kind of Hamilton.

Apps of the Future
Instructor(s): Michelle Kim
Grade: 6-9  Offering: Week 1 AM/PM; Week 2 AM/ PM
What better way to spend a week developing and designing an app of the future! Students will use the Design Process, creativity, collaboration, and an in-depth look into the details surrounding app development and creation. Basic block coding and critical thinking skills will be applied to ensure successful products and will be proposed and pitched to parents and peers. Join in as we explore this aspect of Computer Science!

Stop Motion Animation - Claymation
Instructor(s): April Green
Grade: 6-9  Offering: Week 1 AM; Week 2 AM
Have you ever wanted to make your own movie? Come join the fun as we write stories, build characters, and design backdrops for a stop motion animation. Sculpt with clay and wire to make your ideas and characters come to life!

Tasty Science
Instructor(s): Casey Schmitz
Grade: 6-9  Offering: Week 1 AM/PM; Week 2 AM/ PM
Food-prep videos have become all the rage on social media. Shot from an overhead point of view, these videos are sped up to show viewers how to prepare a variety of recipes in mere seconds. Students will work in small groups to learn the science behind the recipe, prep food, shoot step-by-step instructions, edit the footage and even select their own music to accompany their video. Tasty Science is a course designed for students who have a love for cooking/baking, science, technology and collaboration.

Yoga for Scholars!
Instructor(s): Kyra Matthews
Grade: 6-9  Offering: Week 1 PM; Week 2 PM
It's a big, beautiful, complicated world! Every so often, school/screens/stress can get the better of us. Luckily, every one of us has the power to find and cultivate a peaceful place within. Yoga for Young Scholars will teach the foundations of deep breathing and movements to alleviate stress. We will explore mindfulness as a way to manage our emotions and do better in school. This class will combine everything you love about PE, art, music, performance, health, and inner peace.
The Formula of Fantasy Sports: Baseball & More!

Instructor(s): Thomas Wright

Grade: 7-9  
Offering: Week 1 AM; Week 2 AM

Students will apply critical thinking and problem-solving techniques to analyze, predict and evaluate professional sports outcomes on a daily basis. While the primary focus of the class will be studying baseball analytics to create a predictive fantasy baseball formula, skills learned through this lens will be applied to a wide variety of other sporting events - from the NFL Draft to the FIFA Women’s World Cup.