Handwork@Home - Skills & Outcomes

DESIGN & BUILD STUDIO

ALPHABET ARCHITECTURE

-Project planning -Structural design -Drawing and rendering -Working in 2-D & 3-D mediums -Fiber art embellishment techniques	Over the course of the week, students create three dimensional structures based on a letter of the alphabet. These sculptural pieces are embellished with decorations that represent items starting with that letter. At the end of the week the group shares their work, what inspired them, and how their project came to fruition.

ANIMAL IMAGINATION

-Project planning -Imaginative thinking -Drawing and rendering -Working in 2-D & 3-D mediums -Fiber art embellishment techniques	Throughout the week, students learn about different types of animals and their habitats. They are then encouraged to use their creativity to invent unique animals and design the environments they live in. The week concludes with a project sharing event where students show their creations and talk about what inspired the animals & environments they made.

ARCADE BUILDING

-Project planning -Game mechanics -Drawing and rendering -Working in 2-D & 3-D mediums -Fiber art embellishment techniques	In this workshop students learn about engineering and game concepts, then apply their imagination to building their own cardboard game creations. At the end of the week the group shares their inspiration, what they made, and demonstrates how their unique game is played.

BRINGING POWER TO LIFE

-Project planning -Basic circuitry -Constructing a model -Wiring & installing LED lights -Fiber art embellishment techniques	Over the course of the week, students explore sustainable energy, electricity, and power. They learn how to efficiently and safely build their own power grid & build a community by working together to design, build, and light up a city block. The week concludes with a group project sharing event.

MACHINES THAT MOVE

-Project planning -Using levers & pulleys -Machine design -Working in 2-D & 3-D mediums -Fiber art embellishment techniques	In this workshop students learn about different types of machines and their functions. This knowledge is then applied to a unique compound machine project that really moves! At the end of the week students share their machines, discuss challenges & demonstrate their creations in action.

MODERN AMERICAN ARCHITECTURE

-Designer research -Project planning -Environmental design -Working in 2-D & 3-D mediums -Fiber art embellishment techniques	Throughout the week students explore the life of famous American architect Frank Lloyd Wright and his philosophies. Using the concepts of organic architecture, texture, and environment design students are empowered to plan and build their own architectural masterpiece.

FASHION STUDIO

EMBROIDERED DENIM

-Upcycling denim -Create & stitch unique designs -Embroidery & embellishment -Patch making & fabric repair -Pom-pom making & wonder knitting	In this workshop, makers create their own unique and on-trend fashion statement using embroidery techniques. Students learn how to create, transfer, and stitch their very own designs & a variety of embroidery stitches and techniques.By the end of the week they have their very own unique, personalized, wearable pieces of art.

FASHION DESIGN & STYLING

-Fashion sketching -Using the elements of design -Styling strategies & techniques -Finding your ‘fashion voice’	In this class, students explore the fashion design journey from sketching to styling, learning figure drawing, rendering fabrics, & creating their own finished designs. Over the course of the week, students research & develop a completely styled design for a real or imagined person.

FASHION SOCIAL MEDIA

-Fashion sketching -Using the elements of design -Trend research & development -Finding your ‘fashion voice’	This class takes a deep dive into how social media impacts design and the fashion industry. By the end of the week students create their own social media campaigns to explore how designers, fashion bloggers, models, and celebrities use social media to communicate to an audience.

GLAMORIZE YOUR DOLL

-Tracing & cutting fabric safely -Stitching & garment construction -Embroidery & embellishment -Pom-pom making & wonder knitting	Over the course of the week makers are inspired to design and create trendy clothing and accessories for their dolls. They are challenged to create a design that fits the theme of the week, and then participate in a fashion show on the last day to show off their creations.

T-SHIRT TRANSFORMATION

-Upcycling T-shirts -Cutting, fraying, & hemming -Beads/button/ribbon embellishment -Pom-pom making & wonder knitting	In this workshop students channel their creative DIY energy into cutting, deconstructing, reconstructing, and embellishing their t-shirts to transform them into something entirely new. The week concludes with students sharing the projects they made and how these represent who they are.

TEXTILE & CRAFT STUDIO

BOOKBINDING & JOURNAL MAKING

-Specialty papermaking -Marbling & making deckled edges -Watercolor resist technique -Decorative bookbinding processes	Over the course of the week, kids learn the basics of bookbinding to create their own journal, and use the journal to capture their experiences this summer. Scrapbooking techniques help them embellish their pages and enhance their stories so that one day they can look back on their memories, contained in a beautiful piece of art.

FABRIC & SURFACE DESIGN

-Block printing on fabric -Upcycling & design composition -Embroidery & needle felting -Embellishment & applique	In this skill-building class, students explore the principles of textile design & custom fabric creation using multiple techniques as well as ordinary materials. Students then use their unique fabric creations in various textile projects.

FIBER ARTS

-Stitching & soft sculpture -Embroidery & needle felting -Pom-pom making & wonderknitting -Bead/buttons/ribbon embellishment	In this workshop students explore hand sewing, embroidery, weaving, and other fiber art techniques as they create unique three dimensional projects. At the end of the week, makers talk about the skills they learned & share their creations.

CREATIVITY TIME

-Listening & imaginative thinking -Putting thoughts on paper -Stitching & Soft-sculpture -Pom-pom making & wonderknitting -Bead/button/ribbon embellishment	Throughout the week students use stories as inspiration for fiber arts creations. This class helps facilitate creative thinking, fine motor skills, and persistence - all while creating unique fiber projects, exploring stories, and playing games.

WORLD CRAFTS

-Traditional crafting history -Kumihimo braiding -Stitching & Soft-sculpture -Pom-pom making & wonderknitting -Bead/button/ribbon embellishment	Makers explore handcrafts from various cultures and regions from all around the world & explore the connection between crafts and culture by learning about the geography of the region, and how the crafts are significant to that place. After learning about these traditions, students create their own unique projects using fiber arts techniques.

TECHNICAL THEATER STUDIO

COSTUME DESIGN

-Script analysis & design research -Applying metaphors to a concept -Drawing & collaging to convey ideas -Rendering fabric & texture -Design presentation	In this workshop students explore costume design in theater, TV, and movie production. They learn how to create a costume that enhances a character, sets a mood, and takes center stage. At the end of the class, they create a costume from their wardrobe inspired by a character of their choosing.

PROP BUILDING

-Script analysis & design research -Applying metaphors to a concept -Drawing & sculptural construction -Detailing & repairing a prop -Design presentation	Over the course of the week crafters learn the different types of props used to bring a story to life. They are familiarized with the props designer role, and how to create an aesthetic for a production. Using household and recycled materials, they act as props designers for their own production and research, sketch and design, and build their own pieces.

HOW TO DESIGN A STAGE SET

-Script analysis & design research -Applying metaphors to a concept -Drawing & sculptural construction -Scene rendering & model making -Design presentation	In this workshop students learn about the scenic design process and how an environment can help to tell a story. Students research, draw, collage, and make models to communicate their ideas successfully. The week concludes with a group discussion & design presentation

ROBOTICS STUDIO

CODE & CREATE

-Learning & applying robotic codes -Troubleshooting to fix coding issues -Making fiber art robot accessories -Creating spaces for Ozobot to explore	In this workshop students use the innovative Evo Robotic system to create interactive maps for a robot to explore. They start with learning blockly and color coding concepts, and by the end of the week their robot has a world to explore.

COMMUNITY ENGINEERING

-Learning & applying robotic codes -Troubleshooting to fix coding issues -Designing a robot obstacle course -Creating spaces for Ozobot to explore	This workshop uses the innovative Evo Robotic system. Students learn how to program actions for their robot to perform, then design and build community spaces and structures, for their Ozobot to navigate & explore.

GAME PLAY & DESIGN

-Learning & applying robotic codes -Troubleshooting to fix coding issues -Game research and development -Creating a functional robot game	In this course, makers explore programming the Evo robot, & learn the basics of coding and gaming concepts. Students design, build, and play games of their own invention, while incorporating their robot to make an interactive experience.

SPACE EXPLORATION

-Learning & applying robotic codes -Troubleshooting to fix coding issues -Designing a unique constellation -Creating environments for Ozobot to explore	Over the course of the week students use the innovative Evo Robotic system. They will learn coding concepts in space exploration & astronomy. This all comes together with the invention of a constellation for their robot to explore.