

# **STEM**

## **Diamond Painting Keychains**

In our Diamond Painting Keychains activity, students step away from digital screens to immerse themselves in a tactile, "no-device" creative process that transforms hundreds of tiny, sparkling resin "diamonds" into vibrant, wearable masterpieces. This intricate craft is specifically designed to sharpen fine motor skills and nurture resilience, as children practice the patient focus required to meticulously place each gem to reveal a stunning 3D design. Beyond the artistic achievement, this collaborative session encourages students to share design tips and celebrate each other's progress, directly supporting our camp's core mission of fostering empathy and mutual respect. By the end of the activity, your child will take home a shimmering accessory and, more importantly, a profound sense of pride in their ability to see a complex project through to completion.

## **Egg Drop Challenge**

In our Egg Drop Challenge, students take on the role of aerospace engineers to design and construct a custom "lander" using only straws, tape, and cotton balls. This high-stakes STEM activity encourages "learning by doing" as campers apply physics and critical thinking to protect their raw egg from a gravity-defying drop. By working in small teams to prototype and test their designs, students naturally develop resilience and collaborative problem-solving skills, learning that "failure" is simply a stepping stone to a successful landing. It is a thrilling, "no-devices" experience that inspires young innovators to think outside the box while building the confidence to tackle complex real-world challenges.

## **DIY Slime Lab**

In our DIY Slime Lab, students become young chemists as they explore the fascinating world of polymers by experimenting with different activators to master the perfect viscosity. This hands-on "Active-Content Discovery" session encourages students to make scientific predictions and observe real-time results, turning a messy, fun activity into a rigorous lesson in cause and effect. By working in pairs to compare their unique formulas, campers develop the collaboration and resilience needed to succeed in any lab, all while enjoying a high-sensory, "no-devices" experience that sparks a lifelong curiosity for STEM.

## **Cloud Playdough**

In our Cloud Playdough activity, students engage in a soothing, sensory-rich experience as they mix common materials to create an ultra-soft, moldable dough that mimics the fluffy texture of clouds. This hands-on STEM project serves as a practical lesson in chemistry and "Active-Content Discovery," as campers observe how combining different substances results in a brand-new physical state. By working together to knead and shape their creations, students

reduce their screen time while building the collaboration and fine motor skills that are central to our camp's mission of nurturing well-rounded, creative leaders.

## **Kite Making & Flying Kite**

In our Kite Making & Flying Kite activity, students engage in a hands-on engineering challenge as they design, assemble, and decorate traditional kites from scratch. This "Active-Content Discovery" session bridges the gap between physics and artistry, requiring campers to master the balance and aerodynamics necessary to achieve flight.

## **Bridge Building**

In our Bridge Building challenge, students step into the roles of structural engineers to design and construct robust bridges using only popsicle sticks and glue. This immersive "Active-Content Discovery" activity pushes campers to apply logical reasoning and physics as they compete to see whose architectural masterpiece can support the most weight.

## **Cooking**

### **Tortilla Pizzas**

In our Personal Tortilla Pizzas session, students transform into mini-chefs, using fresh ingredients to customize their own healthy creations while mastering fundamental culinary techniques. This hands-on activity encourages "learning by doing" as children practice decision-making and sensory exploration in a fun, collaborative kitchen environment. By sharing toppings and techniques with peers, students strengthen their social skills and empathy, turning a simple meal into a rewarding lesson in creativity and teamwork.

### **Ice-Cream(Shake It!)**

In our Ice-Cream (Shake It!) activity, students dive into a delicious hands-on science experiment where they transform simple ingredients into a chilled masterpiece through active physical movement. This high-energy session encourages "learning by doing" as campers discover the magic of states of matter while shaking and blending their custom treats to perfection.

### **Frushi**

In our Frushi or Fruit Sushi activity, campers become culinary explorers as they master the art of "learning by doing" by crafting healthy, vibrant rolls using coconut rice and fresh tropical fruits. This tactile, "no-devices" session encourages students to experiment with textures and presentation, bridging creative expression with the logical steps of food preparation.

## **Smoothie Bowls**

In our Smoothie Bowls activity, students blend nutrition with artistry as they transform frozen fruits into vibrant, edible canvases topped with an array of seeds and nuts. This hands-on session encourages "learning by doing" as campers practice fine motor skills and aesthetic design to create a healthy masterpiece that is uniquely their own. By participating in this refreshing, "no-devices" experience, students develop the **\*\*patience and self-expression\*\*** central to our leadership goals, all while discovering that healthy living can be both creative and delicious.

## **Arts & Creative Crafts**

### **Macramé Keychains**

In our Macramé Keychains activity, students master the ancient art of decorative knotting to transform simple cords into trendy, boho-style accessories. This tactile "no-devices" session encourages patience and focus, as campers practice the intricate sequences required to build complex patterns from basic foundations.

### **Paper Mache Projects**

In our Paper Mache Projects, students transform eco-friendly materials into durable 3D masterpieces like masks and sculptures, mastering the patient art of structural design. This tactile "no-device" session encourages "learning by doing" as campers navigate the multi-step process of molding and decorating their unique creations.

### **Sharpie Coasters**

In our Sharpie Coasters activity, students explore the intersection of art and science by using permanent markers and rubbing alcohol to create mesmerizing "marbled" effects on ceramic tiles. This hands-on "Active-Content Discovery" session encourages students to experiment with chemical reactions and color theory, turning a simple craft into an inspiring lesson in cause and effect.

### **Tie-Dye T-shirts**

Tie-Dye T-shirts activity allows students to explore the vibrant world of textile art by mastering the "ice dye" method to create sophisticated, one-of-a-kind wearable masterpieces. This hands-on "Active-Content Discovery" session encourages campers to experiment with color theory and patience as they wait for the melting ice to reveal unique, marbled patterns.

## **Friendship Bracelets**

Unleash their creativity as they design and craft their own unique bracelets. This hands-on activity encourages fine motor skill development, creative thinking, and self-expression. Using colorful materials, children will learn simple techniques to create wearable art that they can proudly show off or share as gifts— from simple braids to mastering complex "chevron" and "diamond" patterns. It's a fun and meaningful way for kids to explore their artistic side while building patience and focus.

## **Look Chub**

In our Look Chub activity, students celebrate local culture by hand-sculpting traditional Thai miniature desserts from sweetened mung bean paste into vibrant, fruit-shaped works of art. This delicate "Active-Content Discovery" session encourages fine motor precision and artistic patience as campers paint their creations with vivid colors and master the glazed finish of agar jelly.

## **Movement**

### **Scavenger Hunt**

Follow an exciting trail, completing fun and challenging tasks at each station to collect treasures and clues. Working as a team, they'll race back to the home base to check if they've gathered all the items on their list. This activity combines problem-solving, teamwork, and quick thinking as kids balance accuracy with speed to succeed. It's a thrilling adventure that promotes collaboration, sharpens focus, and brings out the excitement of friendly competition!