



# B·A·S·E C A M P

**BUILD A SUMMER EDUCATION**

## 1ST AND 2ND GRADE CAMPS, SUMMER 2018

AM (morning):

### Art Around the World (1st-2nd)

**1-week session** Every day is a new adventure as you explore a different part of the world. We'll find locations on a map, learn greetings in the local language, hear exciting stories from exotic lands, and create art inspired by our "travels." Destinations will include Greece, Egypt, Japan and more, and each stop earns a stamp in your passport. Invent your own country and imagine its art and culture as you build a landmark of your own design. Instructor: Kim Jones. *Content will be the same each session. Please dress for mess!*

**Week 1 - June 11 to June 15; 9 to 11:30 AM; at Beye Elementary; \$150**

**Week 2 - June 18 to June 22; 9 to 11:30 AM; at Beye Elementary; \$150**

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### Coding Lab (1st-2nd)

**1-week session** Get a taste of coding basics through visual games and hands-on activities. Move from a simple understanding of sequencing to basic programming on the computer. We will create an original animation using the Scratch Jr. program as well as bring coding logic to life by programming an Ozobot robot to follow basic movement commands created using both low-tech and high-tech techniques. Have a blast while you use critical thinking and problem solving skills to build a foundation for coding literacy. Instructor: Scott Naber. *Content will be the same each session.*

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### Experimentation Station (1st-2nd)

**1-week session** Conduct hands-on experiments with things gooey, strange, stinky, colorful, eruptive, surprising and always fun! Hypothesize about the science behind the reactions you see. You'll finish camp with a lab book of experiments that you can do again at home. Instructor: Caroline Baker. *Content will be the same each session. Please note that some experiments will involve small servings of candy (nut free), and we will make ice cream (with a non-dairy option). Ingredients can be provided upon request.*

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### LEGO Architects (1st-2nd)

**1-week session** Use your creativity and problem-solving skills to construct celebrated natural and human-made wonders using LEGOs! Projects will build on ideas from famous Chicago-area architects like Frank Lloyd Wright, Jeanne Gang, and Frank Gehry. Kids will work both individually and in small groups. We'll document our projects and share them with friends and family at the end of camp. Instructor: Ryan Winchell. *Content will be the same each session.*

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## **LEGO Stop Motion (1st-2nd)**

**1-week session** Make an animated movie using LEGOs! Create your storyboard, build your LEGO scenery and characters, and capture each step of the action with the camera. Then put on your producer hat and bring it all together using iMotion software. Your final product will be your very own animated stop-motion video. Instructor: Ryan Winchell. *Bring simple, recycled materials to create your movie set (more information given during the first day of camp). You may register for multiple sessions; campers can animate different stories each session.*

**Week 3 - June 25 to June 29; 9 to 11:30 AM; at Beye Elementary; \$150**

**Week 4 - July 2 to July 6 (no camp July 4); 9 to 11:30 AM; at Beye Elementary; \$125**

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## **Origami Movie Shorts (1st-2nd)**

**1-week session** Learn about the Japanese art of paper folding and create your own origami characters. Working in small teams, write a story script and create a short film using iMovie to bring your characters to life. We will end the week with a film festival for friends and family while enjoying a Japanese snack. Instructors: Molly Sakamoto and Katie Noonan

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## **Playground Physics (1st-2nd)**

**1-week session** What makes a slide faster or slower? How high will a ball bounce on different surfaces? What makes a swing swing? Join us outside and explore the science behind your favorite playground equipment, learning about resistance, friction, and forces that defy gravity through hands-on experiments and play. Then work together to design the best playground ever using your new physics knowledge. Instructor: Sarah Becker. *Content will be the same each session.*

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## **Science Around Us (1st-2nd)**

**1-week session** Learn about the science of everyday life. We'll take walking field trips to community gardens to examine how plants grow and discover how we can replicate that process without soil. We'll investigate chemistry in nature with natural dyes and more. And we'll explore the physics of movement through breakdancing and traditional playground games. Campers will actively investigate the scientific rules that govern our daily life and discover new possibilities they never imagined. Instructor: Maya Barros Odim. *Content will be the same each session.*

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## **Storybook Engineering (1st-2nd)**

**1-week session** Want to design modern endings to classic fairy tales? Get creative and engineer new solutions to old problems. Find a better way for Rapunzel to escape her tower, invent a parachute for Jack and the Beanstalk, or re-design baby bear's bed for Goldilocks. Experiment and work together to imagine solutions that don't require a prince or a Fairy Godmother! If at first you don't succeed, try, try again! Instructor: Jennifer Buckley. *Content will be the same each session.*

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## Summer STEAM (1st-2nd)

**1-week session** Spend the week exploring STEAM with a sampling of exciting summer-themed projects. Get a taste of Science, Technology, Engineering, Art and Math with new activities each day. Make a watermelon volcano, engineer a boat, bring a story to life through animation, create your own colorful kaleidoscope, and more. Question, design, build and create, all while engaged in play. Instructor: Caitlin Heyman. *Content will be the same each session.*

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## Theater of the Wild (1st-2nd)

**1-week session** Tell your story with no boundaries. Explore our local wilderness through a field trip, build camp spirit with theater games, and get inspired by nature. Then through improvisation and collaborative writing, create an original performance with costumes and scenery of your own design. Gain stage skills and confidence while becoming the next generation of caretakers for the earth. Instructor: Rhona Taylor. *You may register for multiple sessions; campers will write different plays each session. In partnership with the West Cook Wild Ones.*

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## PM (afternoon):

### Junior Detectives (1st-2nd)

**1-week session** Solve the mystery of the stolen art with science! Become a crime scene investigator and get eyewitness accounts, match ink samples through chromatography, and analyze fingerprints and DNA (are these hair fibers our thief's or leftover cat hair?). Each day, you'll uncover new evidence until you find the culprit. Share your analysis with a real-life crime fighter to earn your junior detective badge. Instructor: Sarah Becker. *Content will be the same each session.*

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### LEGO Pre-Engineering (1st-2nd)

**1-week session** Use LEGO Mechanisms to take on exciting challenges – building machines that carry the most weight, roll the farthest or the fastest! Working in groups or individually, you'll build vehicles, mini-robots, catapults and contraptions of all sorts. Sketch, design and create small machines, figuring out along the way what works and what doesn't. Some projects will incorporate instructions to follow while others will be free-form design, bringing out your inner inventor. Instructor: Scott Naber. *Content will be the same each session.*

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### Music Makers (1st-2nd)

**1-week session** Experiment with sound and vibration in music and nature. How can you produce tones and rhythm with everyday materials? See how sound waves work by building your own ear drum and a salt vibration experiment. Construct your own instruments like crocodile

castanets, shoebox guitars, water xylophones and more. Join us for a music maker parade on Friday. Instructor: Anna Petrick. *You're welcome to bring in your own recycled materials to add to ours. Content will be the same each session.*

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## Rainforest Yoga (1st-2nd)

**1-week session** Stretch your mind and body as you explore the rainforest with stories, music, art, jungle movement and meditation. Build and decorate a giant rain stick to transport yourself into the wild. Learn to use your breath to both calm and energize your body, and build coordination, balance and strength. Instructor: Kim Vulinovic. *Content will be the same each session. To participate fully in the class, children should wear comfortable clothes (e.g., leggings/sweats, not dresses, tights or jeans). In partnership with YogaKids of Oak Park.*

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## Space Rangers (1st-2nd)

**1-week session** Blast off on an intergalactic adventure! Get up close with outer space as you create constellations, moon craters and balloon rockets. Step into the shoes of an astronaut and simulate walking, writing and working in a spacesuit, and Skype with a NASA astronaut doctor to learn more about space careers. You'll even sample astronaut food! Instructor: Jen Buckley. *Content will be the same each session. Please note this camp will include a selection of freeze-dried foods, with allergy-friendly options. Ingredients provided upon request.*

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## Story Quilts (1st-2nd)

**1-week session** Tell a story—in fabric! Learn the science behind dying fabric, how to transform fiber through felting, and the mechanics of hand and machine stitching. Bring together art, science and your imagination to create a personal art quilt that will express the unique story of YOU. Present your final creation in our exhibit on the final day of camp. Instructor: Pamela Penney. *You may register for multiple sessions; campers will make different quilts each session.*

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## Tinker Time (1st-2nd)

**1-week session** Become an innovator the old-fashioned way – by tinkering. Learn how things work with cool materials, real tools, and time to explore in a fun, safe space. You can build a marble run, construct ramps, plan a maze, or come up with your own original creation from scratch. Work in a team or by yourself, learn problem-solving skills, and follow your own interests. Instructor: Caroline Baker. *You may register for multiple sessions; campers can build different innovations each session.*

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## Toy Inventors (1st-2nd)

**1-week session** Be your own toy maker! Examine your favorite toys to understand what makes a toy great. Then you will create one-of-a-kind contraptions and toys from recycled materials such as wheels, pipes, and other reusable odds and ends. Using hand cranks and gears, learn how you can make your toys move. Collaborate on ways to improve your designs for maximum fun. Show off your cool creations to friends

and family. Instructor: Anna Petrick. *You're welcome to bring in your own recycled materials to add to ours. Content will be the same each session.*

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## **Weather Science (1st-2nd)**

**1-week session** Are you wild about weather? Learn about the science behind wind, rain, clouds and storms through hands-on experiments. Make it rain in a jar, build an anemometer to measure air speed, see centripetal force in action with a tornado in a bottle, and simulate earthquakes with a shake table. Finally, you'll discover the TV weatherperson's "green screen" trick – and create your own weather forecast video complete with a cool background of your choosing. Instructor: Jen Buckley. *Content will be the same each session.*

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