



# B·A·S·E C A M P

**BUILD A SUMMER EDUCATION**

## 7TH AND 8TH GRADE CAMPS, SUMMER 2018

AM (morning):

### **Lift Off: Aeronautics (7th-8th)**

**1-week session** Investigate and test the dynamics of flight by building different aircraft models and learn first hand about combustion and trajectory by launching your own rockets. Investigate physics concepts such as energy conservation, buoyancy and the forces of flight. During the week you'll design, build, and test airplanes, rockets, Chinese lanterns and more. The sky's the limit as we explore the science of aeronautics. Instructor: Ryan VenHorst. *Content will be the same each session.*

**Week 1 - June 11 to June 15; 8:45 to 11:45 AM; at Julian Middle School; \$170**

**Week 2 - June 18 to June 22; 8:45 to 11:45 AM; at Julian Middle School; \$170**

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### **Mosaic Mural Project (7th-8th)**

**2-week session** Create a colorful and informative mosaic mural at Julian Middle School this summer. Designed in partnership with the Julian school community, the mosaic will be a tribute to Oak Park scientist and social activist, Percy Julian. Learn to use different mosaic techniques: micro and macro pieces, sculptural elements, photo transfer and tile preparation. Get your hands dirty as you work to complete a stunning exterior work of art. Instructors: Edd Magierski, Phil Swistowicz and Tracy VanDuien. *In partnership with District 97.*

**Weeks 1-2 - June 11 to June 22; 8:45 to 11:45 AM; at Julian Middle School; \$370**

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### **SewEco (7th-8th)**

**1-week session** How are clothes and other fabrics made and how do they end up in the store? From the fibers used, to the dyeing process, to shipping and packaging, even the hangers on which they are hung, textiles have a significant impact on the environment. Campers will learn technological advances to help make textiles greener, how to look at unwanted textiles in a different way, and through a series of projects, how to sew in an eco-friendly way by reusing textiles. Additionally, campers will learn how to use sewing tools correctly, including a sewing machine, and will be exposed to the way sewing machines work, types of fabric, correct sewing and garment vocabulary. Instructor: Angie Cataldo.

**Week 4 - July 2 to July 6 (no camp July 4); 8:45 to 11:45 AM; at Julian Middle School; \$140**

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### **Textile Engineering (7th-8th)**

**1-week session** Reverse engineer your wardrobe! Campers will learn how garments are created through the process of deconstructing an article of clothing, drafting a sewing pattern and sewing a new garment. In addition to measuring, drafting and engineering changes to a pattern, campers will learn how to use sewing tools correctly, including a sewing machine, and will be exposed to the way sewing machines work, types of fabric, correct sewing and garment vocabulary. Instructor: Angie Cataldo.

**Week 3 - June 25 to June 29; 8:45 to 11:45 AM; at Julian Middle School; \$170**

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## VEX Robotics (6th-8th)

**2-week session** Learn to design, build, and program robots from scratch. You'll work in teams, taking on a series of exciting challenges that will build both mechanical and programming skills in creating bots. This is a great opportunity for those with no experience, as well as students with previous experience, to experiment, learn and have fun! Instructors: Marc Bishop and Gretchen Junker. *Content will be the same each session. Please note: This camp is for 6th, 7th and 8th graders.*

**Weeks 1-2 - June 19 to June 30; 8:45 to 11:45 AM; at Julian Middle School; 340**

**Weeks 3-4 - July 3 to July 14 (no camp July 4); 8:45 to 11:45 AM; at Julian Middle School; \$310**

*Special note about VEX camps: Due to the District 97 summer construction schedule, Brooks is not available for BASE Camp this summer. VEX is offered only at Julian this year, open to students at all experience levels and from all schools.*

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## Web Design (7th-8th)

**1-week session** Share your favorite hobby or interest—whether it's gaming, music or cooking— with your friends and the world. Merge technology, art, and imagination to create a fully functioning website you build yourself. Explore graphic design, develop engaging layouts, learn how to embed pictures and links, then bring it all together into a secure website using simple coding through the Adobe Dreamweaver platform. Instructor: Jim Hayward. *Campers should bring a USB flash drive to save their work. Content will be the same each session.*

**Week 3 - June 25 to June 29; 8:45 to 11:45 AM; at Julian Middle School; \$170**

**Week 4 - July 2 to July 6 (no camp July 4); 8:45 to 11:45 AM; at Julian Middle School; \$140**

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## PM (afternoon):

### Builder Workshop (7th-8th)

**1-week session** Put away your tech and discover the fun of creating with your hands. From simple furniture to a working lamp, use found objects and basic building materials to construct projects of your own design. Choose from a variety of materials on hand, or be inspired by your own thrift store find to makeover an everyday object into something all your own. Camp will involve use of woodworking tools and electrical equipment under adult supervision. Instructor: Manny Apostol. *You may register for multiple sessions; you will take on new projects each week.*

**Week 3 - June 25 to June 29; 12:30 to 3:30 PM; at Julian Middle School; \$170**

**Week 4 - July 2 to July 6 (no camp July 4); 12:30 to 3:30 PM; at Julian Middle School; \$140**

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### Homesteading (7th-8th)

**1-week session** Inspired by Sugar Beet's popular Homesteading Camp, we have pulled together the highlights for an exciting hands-on adventure. From making dough and beeswax candles to sewing, campers will learn self-reliance and "do-it-yourself" skills that cultivate resourcefulness and an appreciation for the handmade. Each day will feature a new "make-and-take" project that will teach hands-on skills as well as the environmental impacts and economic benefits of maintaining an urban homestead. Instructor: Cheryl Munoz. *In partnership with Sugar Beet Schoolhouse.*

**Week 1 - June 11 to June 15; 12:30 to 3:30 PM; at Julian Middle School; \$170**

**Week 2 - June 18 to June 22; 12:30 to 3:30 PM; at Julian Middle School; \$170**

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## Humans of Oak Park: World Changers (7th-8th)

**2-week session** Based on the popular social media series “Humans of New York,” this camp will delve into the real stories of everyday Oak Parkers. We will visit several different downtown Oak Park areas to spontaneously interview locals, as well as arrange conversations with community leaders. Incorporating interview skills, photography, writing, design and editing, we’ll produce a blog to highlight the stories of our community. Finish the camp with an artwork showcase. Instructor: John Colucci. *Participation will include some cross-collaboration with Spoken Word.*

**Weeks 3-4 - June 25 to July 6 (no camp July 4); 12:30 to 3:30 PM; at Julian Middle School; \$310**

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## MINDSTORMS Robotics (7th-8th)

**1-week session** New to robotics? Learn to design, build and program cool robots using LEGO’s most advanced robotics technology – MINDSTORMS® EV3. Work as a team to complete projects and games created specifically for EV3. You can build robots like a raptor arm, space tracker, electric guitar, robodozer, and more. Through the engineering design process you will gain the skills needed to build and program robots, and understand how technology works in real-world applications. Instructor: Richard Rollo. *You may register for multiple sessions; you will take on new challenges with each.*

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**Week 2 - June 18 to June 22; 12:30 to 3:30 PM; at Julian Middle School; \$170**

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## Mosaic Mural Project (6th-8th)

**2-week session** Create a colorful and informative mosaic mural at Julian Middle School this summer. Designed in partnership with the Julian school community, the mosaic will be a tribute to Oak Park scientist and social activist, Percy Julian. Learn to use different mosaic techniques: micro and macro pieces, sculptural elements, photo transfer and tile preparation. Get your hands dirty as you work to complete a stunning exterior work of art. Instructors: Edd Magierski, Phil Swistowicz, and Tracy VanDuinen. *In partnership with District 97. Please note: This camp is for 6th, 7th and 8th graders.*

**Weeks 1-2 - June 11 to June 22; 12:30 to 3:30 PM; at Julian Middle School; \$370**

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## Spoken Word: World Changers (7th-8th)

**2-week session** Immerse yourself in the supportive and electrifying spoken word community. Become a part of a movement of social activists helping your community and the world be a better place. Through music and rap, explore the poetic elements and emotions of song lyrics and be inspired to write your own original pieces based on the issues that matter to you. Create multimedia artwork that illustrates your writing, with the canvas reflecting the emotions, colors, and theme of your spoken word piece. Finish the camp with a snap-worthy live performance and artwork showcase. Instructor: Isaiah Makar. *Participation will include some cross-collaboration with Humans of Oak Park.*

**Weeks 3-4 - June 25 to July 6 (no camp July 4); 12:30 to 3:30 PM; at Julian Middle School; \$310**

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## Urban Biker (7th-8th)

**2-week session** On day one you’ll ride 10 miles with this chaperoned group, potentially building up to a fast-moving 26-mile ride on the last day of camp. Practice street navigation and safe group riding in an urban environment, following rules of the road and fixing problems along the way. Learn self-sufficiency, independence and navigation! In addition to exploring Oak Park and River Forest, ride the 606 trail in Chicago, the Salt Creek trail and stop to see the sights in surrounding communities. Instructors: Peter Schwob and Guillermo Delgado. *Required daily items include a road-ready bike with gears (no dirt bikes) and its spare inner tube, bike lock, helmet, snacks, water bottle and closed-toe shoes. Bicycles should be inspected and tuned up at a local shop before the start of camp. Limited loaner bikes are available; please contact camp director for details. While camp content and destinations may be repeated, campers may register for both sessions.*

**Weeks 1-2 - June 11 to June 22; 12:30 to 3:30 PM; at Julian Middle School; \$350**

**Weeks 3-4 - June 25 to July 6 (no camp July 4); 12:30 to 3:30 PM; at Julian Middle School; \$320**

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## Full Day Camps:

### Paper HeART (7th-8th)

**1-week, full-day session** How can you use art as a catalyst for change? Join the Paper HeART experience to explore the intersection of art and social justice. Through field trips and guest speakers, see firsthand how artists bring awareness to human rights, politics, and social responsibility. Discover new ways to express yourself through visual arts, photography and digital storytelling. Learn about the history of social movements, then choose an issue that matters to you to research and create an art piece inspired by the change you want to see in the world. Camp will end with an exhibit showcasing student work. Instructors: Karen Fogg and Tye Johnson. *Lunch supervision is included with this camp. You may register for multiple sessions; you can choose a different project each week.*

**Week 3 - June 25 to June 29; 8:45 to 3:30 PM; Julian Middle School; \$350**

**Week 4 - July 2 to July 6 (no camp July 4); 8:45 to 3:30 PM; Julian Middle School; \$290**

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### REACH Sailing (5th-8th)

**1-week, full-day session** Learn to sail on Lake Michigan and explore the science, technology, engineering and math that sailors use every day! We'll take a bus each morning to the *Columbia Yacht Club*. Using *REACH*, US Sailing's STEM education curriculum, answer questions like: How does this boat float? What does geometry have to do with sailing? Does the wind pull or push a sailboat? Half your day will be spent inside the yacht club doing hands-on, sailing-related STEM activities, and the other half out on the lake on a J/22 sailboat, five campers per boat, with a US Sailing-certified instructor. Campers will be grouped 5th/6th and 7th/8th together. Instructor: Miranda Tucker. *Content will be the same each session. Price includes daily bus transportation to and from Julian and lunch at the CYC. In partnership with the Columbia Yacht Club.*

**Week 1 - June 11 to June 15; 8:30 to 4:30 PM; departing from Julian Middle School; \$550**

**Week 2 - June 18 to June 22; 8:30 to 4:30 PM; departing from Julian Middle School; \$550**

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