



Biology. Kids. Hands-on. Fun.

Bionerds, Inc
PO BOX 81004
Rancho Santa Margarita, CA 92688

(949) 288-1486
hello@bionerdsllc.com
www.bionerdsllc.com

Bionerds ILA Syllabus 2020-2021 (rev. Aug 2020)

Come and join this fun and hands-on biology workshops for kids! For our **in-person classes**, COVID-19 safety guidelines will be followed. **Face shields and social distancing are mandatory in class.** Wearing a mask is recommended. Our classroom will be at a shaded outdoor area. A laboratory safety training is included in the first day of class. There will be no Bionerds laboratory coats worn. Disposable arm sleeves protection may be worn as needed instead in class. Student should wear clothes that can get dirty/stained from dissections and during activity/craft time (such as sharpies, paints, markers, glue).

For students who would like to join us online, our in-person class session will be streamed digitally.

Monday 1pm-2pm or Thursday 9:10am-10:10am, 1st-5th graders

Microscopic World and Plants with Bionerds (Semester 1)

Come and join this fun and hands-on biology workshop for kids! Learn about the living organisms that are very small and some we can't even see with our own eyes: bacteria in the environment and food, viruses, yeast and more. Your child will also learn about amazing plants and trees on their photosynthesis ability, seed germination, anatomy and cell/DNA structures, and more. Get up close with live organisms using a microscope and perform cool biology experiments using lab equipment/tools.

Topics Include (one topic/class): Plant Structures, Plant Cells, Seed Germination, Thirsty Plants, Photosynthesis, Local Habitat, Autumn season, Desert Plants, Aquatic Plants, Yogurt, Yeast, Protozoa, Bacteria and Antibiotics, Cyanobacteria, and Virus.

Decomposers and Junior Doctors with Bionerds (Semester 2)

Come and join this fun and hands-on biology workshop for kids! Your child will learn why and how these organisms, from worms, beetles, crustaceans, and more, are called Earth's best friends. Your child will also learn all about medical topics to explore different fields in medicine! Topics will include optometry, veterinary medicine, surgery, emergency care, and more. Your child will be up close with live/preserved organisms, perform some dissections, and engage in cool biology activities and experiments using lab/medical equipment/tools. Specific topics included will be announced later.

Monday 2:10pm-3:10pm or Thursday 10:20am-11:20am, 1st-5th graders

Bioengineering and Insects with Bionerds (Semester 1)

Come and join this fun and hands-on biology workshop for kids! Learn how to design and create something to improve life itself, such as artificial tissue, medical equipment, genetic modification, bioenergy, and more! Your child will be exposed to engineering concepts related to biology and perform cool biology experiments and designing activities. Your child will also learn about the amazing bugs all



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around us such as beetles, butterflies, ants, grasshoppers, fruit flies and more. Get up close and personal with live bugs using a microscope and perform cool biology experiments to learn about these fascinating creatures!

Topics Include (one topic/class): Artificial Tissue, Medical Devices, Renewable Energy, Genetic Engineering, GMO plants, Laboratory Equipment, Prosthetics, Biomimicry, Bioenergy, Fruit Flies, Meal Beetles, Ants, Moths, Bess Beetles and Grasshoppers.

Mix and Match Biology with Bionerds (Semester 2)

These mix and match topics are not related, but still interesting to learn. Your child will learn about a large variety of topics covering many aspects of biology. Learn about bacteria, food biology, animal, genetic, human body, and more. Your child will get up close and personal with live organisms, perform some dissections, and engage in cool biology experiments/activities. Specific topics included will be announced later.

Semester 1 Dates:

Mon 9/14-1/25, No class 11/23, 12/21, 12/28, 1/18

Thurs 9/17-1/28, No class 11/26, 12/17, 12/24, 12/31

Semester 2 Dates:

Mon 2/1-6/7, No class 2/15, 3/29, 5/31

Thurs 2/4-6/3, No class 2/18, 4/1

Deposit and Tuition information

- **\$50 check deposit** is required to guarantee your child's spot in class due on **August 28, 2020**.
 - If there's an active waiting list in place, your child's space may be given to the next student on the waiting list if the deposit is not received on time.
 - The deposit check will BE RETURNED to you after the first 2 weeks of the semester providing the tuition has been issued using a PO or out-of-pocket payment.
 - The deposit check will BE CLEARED when there's a cancellation in registration or you would like to apply the amount to the tuition balance.
 - Please send the check and payable to:
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- **Tuition: \$288 per semester (material fee included)**

Both the deposit and tuition fee must be submitted before the first day of class. If the PO is still pending then, please inform us about the delay by sending us a pending confirmation email or other notification from school to admin@bionerdsllc.com. Please check the policy for your Charter school regarding payment for online vs. in-person classes. Parents are responsible to pay out of pocket when the charter fund is unavailable or not enough.

Without a PO issued or payment, your child will NOT be able to attend our first day of class.

- **If using Charter School fund:**

- **Payable to Bionerds, Inc.**
- **Lump sum per duration** is preferred.
- If it is not possible, please **set up 4 monthly payments/semester** for Charter school fund **payable to Bionerds**
 - **Semester 1: September, October, November, and December 2020**
 - **Semester 2: February, March, April, and May 2021**
- Bionerds is currently an approved vendor for Compass, Elite Academy, Epic, Excel Academy, Gorman Learning, iLead, Inspire, Method Schools, National University Academy, Peak Preparatory, Sage Oak, Sky Mountain, Summit Academy, Scale Leadership Academy, Blue Ridge Academy and Springs Charter Schools. Please let us know if you would like us to be an approved vendor for the Charter School NOT listed above or on our Homeschool page: <https://www.bionerdsllc.com/index.php/home-school-programs/>.

- **For out-of-pocket payment, see below for payment method options.**

- **\$72 monthly payment is due on**
 - **Semester 1: the first day of class and first day of the month of October, November, December 2020.**
 - **Semester 2: the first day of class and first day of the month of February, March, and April 2020.**
- If the payment is late, your child will NOT be able to participate in class until payment submitted. **There will be 10% late fee if the payment is submitted late, more than two weeks after the due date.**
- **Please make sure to include your child's full name and "ILA" and Class Day and Time on the Note section:**
 - **Check** payable to Bionerds. **We do NOT accept check payments in class, please mail** to PO BOX 81004, Rancho Santa Margarita, CA 92688.
 - **Zelle** payable to admin@bionerdsllc.com or (949) 288-1486;
 - **Venmo** payable to Bionerds Inc - @Bionerds, admin@bionerdsllc.com, or 949-288-1486.



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- **Credit cards (online or phone)** – please contact us at admin@bionerdsllc.com or 949-288-1486. **Additional 3.5% fee will be applied to each transaction.**

Notes:

- **Waiver form for each student needs to be signed before the first day of class. Please choose "Independent Learning Academy (ILA)" in the Bionerds Classroom Location/Type box section** to make sure we know which class your child will be in. **Students cannot participate in any activities in class without the signed form.** Waiver link: <https://waiver.smartwaiver.com/v/bionerds/>
- **Please review the Laboratory Rules and Safety Guidelines** (<http://www.bionerdsllc.com/index.php/laboratory-safety/>) and **Participant Code of Conduct** (<http://www.bionerdsllc.com/index.php/participant-code-of-conduct/>) with your child prior to the first class. It will help us to offer safe, educational and fun programs.
- Bionerds staff **do NOT administer medication** or first aid related ointment/medicine to students. Please let us know if you have questions/concerns.
- **Email is our main communication.** We usually send email weekly to all the parents in class regarding what we did in class, what's next and any updates/announcements, etc. Please make sure you check your spam box as well. You are welcome to contact our teacher directly in class or send her or him an email.
- Topics are subject to change due to unforeseen cause or switch to different dates due to material availability. We will notify you in advance for the changes, if any.
- Our class is considered **enrichment program. It is NOT an A-G approved program.** No grading and homework system applied. **No textbook needed.** We will provide you the materials and Personal Protective Equipment (PPP) such as laboratory coat, goggles, and gloves in class.
- When there is a session involving dissections, ALL students in class may participate in dissecting. Older students (8 years and older) may handle dissecting scissors and perform the cutting on specimens. Younger students (6-7 years old) may NOT handle dissection scissors, the teacher will do the cutting for them. All other dissecting tools provided such as forceps can be handled by all students. Dissecting scissors are the only sharp tools in class used by students.
- Some topics in class may involve fresh or preserved specimens. Most fresh specimens are usually specimens found from common stores. Preserved specimens are either dried or chemically preserved specimens. Please contact us to obtain any information details or safety data sheet for items, reagents, or specimens we use in class.

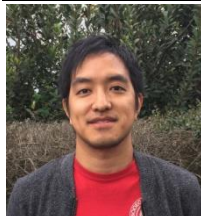


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Teacher Information



Eric Fan is an Educator Associate who graduated from California State University, Fullerton with a Masters (MS) degree in Biology and a Bachelors (BS) degree in Biological Science at the University of California, Davis. He has years of experience in marine biology and cancer research. He enjoys science because it is a field of study where he can always learn something new about the world around him. He enjoys playing music and maintaining his planted aquarium during his free time. While pursuing his Master's degree he discovered a passion for teaching. He enjoys seeing the excitement in his students' eyes when they learn something new, and he hopes that he can inspire the next generation of young biologists! He can be contacted at Eric@bionerdsllc.com.



Anika Kenion is an Educator Associate who received a BA in Integrative Biology from University of California, Berkeley, with an emphasis on Ecology, Evolution and Organismal Biology. She taught for several summers in the Ocean Sciences Program with the Prevent Drowning Foundation of San Diego and spent the last year as an educator at SeaWorld San Diego. She also spent a year in Puerto Rico mentoring college students and engaging in relief work. In addition to teaching at Bionerds, she develops curriculum and teaches ocean science with Sally Ride Science @ UCSD Extension. In her free time, she loves singing, writing, and reading poetry and spending time with loved ones. She is passionate about exploring the world of biology with students and creating learning spaces to inspire growth, compassion, and challenge. She can be contacted at Anika@bionerdsllc.com.

Bionerds Information

Bionerds was born in September 2015 in Orange County, California. It was founded with a mission to nurture curiosity, share lifetime passion and give opportunities for the younger generation to learn about biology through self-discovery. We offer fun, hands-on biology workshops for kids K-8th grades in many cities throughout Orange County. We have after-school, in-class, homeschool, camps, party, field trips, and Girl Scouts programs.

Our curriculum covers vast biology topics from insects, plants, human, genetics, microorganisms, forensic, and more. Your child will have up-close experiences with live/preserved organisms, perform dissections, and engage in biology experiments/activities using laboratory tools. We have been offering our programs to many school districts, cities, home associations, and homeschool facilities throughout Orange County.

Our teachers have college degrees in Biology or related sciences/experiences. Some of us even have graduate degrees. We are honored to be chosen the Best Science/Tech Camp for multiple years by the Parenting OC Magazine families from 2016-2019. We are also chosen as one of the Coolest After-Class programs in the Country by the Red Tricycle website. We are featured in many family websites as one of the great programs for kids in Orange County.

For more info about the programs, please visit www.BionerdsLLC.com.