

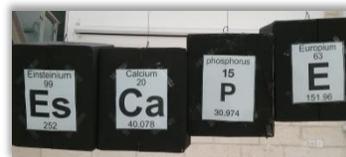
2018 Lily and Avraham Gildor Project Week At the Israel Arts and Science Academy High School (IASA-HS)

Composers, artists, scientists, and world travelers—you'll find them all within the walls of one special place: IASA. From January 17-26, regular classes came to a halt and students focused heart, mind, and soul on personal research projects and special enrichment activities. We're pleased to share some of the highlights with you.

Escape Room



In classic IASA fashion, 11th-grade chemistry students fused entertainment and learning by building a chemistry-themed escape room. With the clock ticking, students and staff had only 60 minutes to solve chemistry puzzles in a desperate bid to escape—or risk being trapped in the room forever!



Hair Donation Drive



At IASA, intellectual excellence goes hand in hand with social awareness. As part of this year's Project Week, in addition to the traditional blood drive, students organized a hair donation drive. Months in advance, students began growing their hair long enough to donate it to be made into wigs for children who lose their hair due to cancer treatment. On the big day, a professional hairdresser came to the school and students bid farewell to their long tresses, happy in the knowledge that they were providing other young people with self-confidence as they battle their way to health.



Musical Transformations



Everything is music to an IASA student's ears! In secret, science student Matar selected a piece of music and wrote a short story inspired by it. At the same time, her friend music student Anat chose a piece of artwork she loved and wrote a poem based on it. They exchanged their poem and story—still without revealing their original inspiration. Then Matar painted a watercolor inspired by Anat's poem, and Matar composed a sonata rondo based on 5 themes she identified in Anat's story. Matar used special music-reading software that allows composers to listen to their

compositions as they write them. At the end of Project Week, they revealed their finished products and their original inspiration pieces to each other, and a fellow student performed Matar's composition to the delight of friends and teachers.

Traveling through Time



The Humanities Department dug deep into Israel's roots on a 2-day archaeology trip. The first day took them to Tel Burna where Dr. Itzick Shai—Excavation Director and proud father of an IASA student—personally guided them through the Bronze and Iron Age site, explaining its biblical relevance. On Day 2, the head of the Archaeology Department at the Hebrew University gave a private lecture on dance in the ancient world, followed by a hands-on workshop on making flint tools and how to analyze ancient pottery shards.

Outer Space and Planet Earth

Real-life CSI: Ms. Sharon Brown, Chief Superintendent of the elite Jerusalem police force responsible for forensic investigations, gave students a window into the fascinating science used to reconstruct the personal diary of first Israeli astronaut, Ilan Ramon, z"l. Ramon's diary was retrieved from a Texas field after plummeting almost 40 miles following the disintegration of the Columbia space shuttle in 2003.

IASA Principal and Biology teacher, Etay Benovich, engaged students in a dynamic presentation about the biology and politics of the water cycle, including a hands-on investigation of sewage treatment methods.



Students in the Spotlight

Ziv, 10th-grade Math Student from Moshav Sde Hemed

"I translated logic riddles from Raymond Smullyan's *The Lady or the Tiger* and made them into rhymes. An art student illustrated them, so now they're up on the wall for anyone to solve. This kind of project really shows what's so special about IASA: I love math, and my teacher helped me find a project that lets me use my math brain in a totally new and creative way—and share mathematical thinking with people who find the word 'math' scary."



Shira, 11th-grade Art Student from Nes Ziona

"I was inspired by a photograph taken by my friend Noa. I wanted to make the face very realistic, but the watery background completely intangible, abstract. It reflects the reality of individual existence within the context of a fluid external reality.



Ori and Shai Li, 11th-grade Humanities and Science students from Rosh Ha'ayin and Ein Dor



"12th-grade art students are running a workshop on a special method of teaching people how to draw. We've never really done art before. But when someone says, 'So you think you can't draw—I'll show you how!' how can you resist?"



Yael and Shachar, 11th-grade Chemistry students from Rishon Letzion and Beit Sher

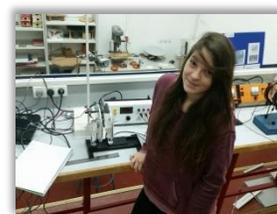
Beit Sher



"We're studying piezoelectricity: when you put physical pressure on a crystal, it provides electric charge. When you put it in an electric field, it changes structure. We heated cream of tartar and sodium bicarbonate—just like in baking—and also looked at different kinds of sugars. We're hoping to make aluminum crystals, too."

Michal, 12th-grade Physics student from Jerusalem

"This is my personal project—it's more than the *bagrut* requires. I'm so passionate about it because it's *my* research. I'm studying the movement of the metal ball in the electric field made by this capacitor. I want to know why it reaches a maximum frequency and then doesn't go any higher. I don't think I could have done this anywhere but at IASA. It's a place that pushes us to follow our curiosity and gives us everything necessary to express ourselves as thoroughly as possible."



IASA Gildor Project Week is named in memory of Lily and Avraham Gildor. IASA students, teachers, staff and parents express gratitude for this unique learning opportunity.