



Science is an adventure in life

Students experience science as a human activity and its relevance to society and to one's own personal, intellectual framework. Students learn how to gain knowledge, think critically and to grow as thinking, aware, and concerned human beings. Through meaningful and motivational experiences, students identify their unique traits and where they fit in life.

From tips and insights to personal reflections, teachers inspire the minds of the next generation of scientists and spark in our students a lifelong curiosity of science and the natural world, forming creative and thinking adults who can work both independently and collaboratively.



Engage



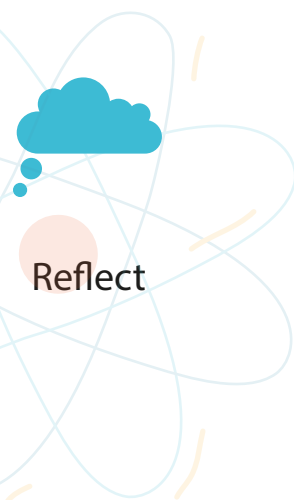
Connect



Integrate



Extend



Reflect



The Science Symposium

Driven by our mission, Ahliyyah & Mutran's launched the **Science Symposium 2022** in collaboration with **the Hussein Technical University** which was established by the Crown Prince Foundation to grade 8 students.



This year the event was a hybrid, holistic, and interdisciplinary conference for young innovators and future life-long learners to engage in a 21st-century learning experience under the theme; Engage, Connect, Innovate. The event took place on December 2022, 15, at the Hussein Technical University campus in the business park and was sponsored by:



to know more about the Science Symposium, kindly click the link: www.youtube.com/ScienceSymposium

Children Museum Experience

Engage!

A science show is a sequence of dramatic demonstrations of science experiments on stage. The idea is to inspire the kids to pursue science beyond the classroom and find joy in learning. The scientific explanations are delivered in an interesting fashion.

- Grade 6 students enjoyed the science show presented by the children's museum, the on-site science laboratory demonstrated several chemistry experiments focused on the states of matter and the changes in the states of matter in an experiential enchanting show that brought a lot of fun to students.



AZRAQ trip



Connect!

The science department arranged an optional field trip to Azraq natural reserve and Shomari natural reserve to **grades 6-8 students**. The purpose of this field trip was to engage in an experience that allowed students to connect with nature and birds through bird watching and walking.



Solar Eclipse

↗ Extend!

A solar eclipse happens when, at just the right moment, the moon passes between the sun and earth.

Jordan witnessed a partial solar eclipse on **October 25th**.

We took this opportunity to let our **grade 8 students** experience the phenomenon and introduce our new unit "**Waves**" that was arranged by scientific and safety rules.





Connect!

Through hosting external speakers, schools provide a safe space for students to engage with a variety of real-life issues and situations and hear different perspectives.

- Grade 7 students hosted Dr. Issa Abu Dayyeh as an integral part of their primary research, in which students inquired about the impact of vaccination to solve a problem and improve public health.



- Dr. Issa is the director of Biolab first Branch, and he is the head of the immunology department and head of research and development.



Let's make cheese in the Lab!



Integrate!

Grade 7 students made cheese in the lab; they designed a scientific investigation to test the effect of different types of milk on the mass of cheese produced. Afterwards students collected, processed, interpreted data and explained conclusions that have been appropriately reached. It was a great opportunity to engage and connect science to real-life situation.



Integration of Technology



To enhance the use of technology and support learning and teaching science we have invested in two new platforms; Discovery Education and Gizmos, students and teachers have access to both platforms which enhanced and enriched home-learning experiences.



Discovery Education is the worldwide EdTech leader whose state-of-the-art digital platform supports learning wherever it takes place. Through its award-winning multimedia content, instructional supports, and innovative classroom tools, Discovery Education helps educators deliver equitable learning experiences engaging all students and supporting higher academic achievement on a global scale.

Discovery Education serves approximately 4.5 million educators and 45 million students worldwide, and its resources are accessed in over 100 countries and territories.

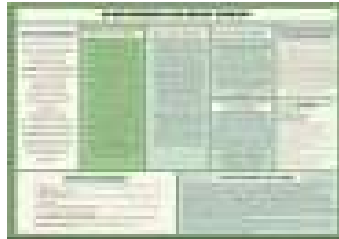


Gizmos are interactive math and science virtual labs and simulations for grades 3-12. Over 400 Gizmos aligned to the latest standards help educators bring powerful new STEM learning experiences to the classroom.

Where Science meets Music!

Integrate!

Grade 8 students reflected on the impact of music therapy to solve a health problem by conducting primary and secondary research. They were asked to design a digital poster in order to transfer skills gained in their digital design classes in grade 7.



Reflect!

- Grade 6 students reflected on the impact of science to protect endangered species. Students were very curious to learn more about a species of their interest and what's the role of science to prevent endangered species from going extinct.



- Grade 7 students reflected on the impact of vaccination to solve the problem of infectious diseases and improve public health, students chose a problem that had been solved by vaccines throughout history and impacted public health.



Modelling



"Learn with Models" At its heart, science is about understanding how components in a system interact with each other. As simple as it may sound, the number and variety of interactions, and the many scales over which those relations operate make science highly complex. Systems in science are highly complex ranging from the smallest cell extending to the wide universe. Because of this complexity, models are essential tools for studying science.

"Models are bridges that connect concrete learning by using physical objects to correspond to abstract ideas. Moving from concrete to abstract thinking means perceiving the likeness of parts in a situation that at first glance may appear to be unlike each other." (Carrejo & Reinhartz 2014, p.11).



Planting

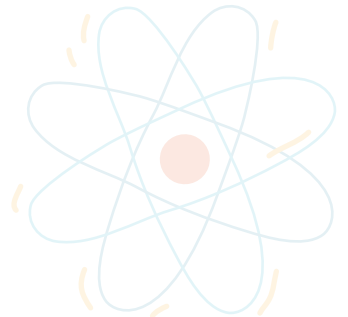


Students inquired about the optimum condition for plants' growth and the process of photosynthesis by conducting a lab investigation by which they have designed an investigation, collected, processes and analyzed data and came up with valid conclusions.



Learn by doing

Experiential learning is an engaged learning process whereby students “learn by doing” and by reflecting on the experience. Such learning experiences could be brought into classroom through conventional physical lab setups or virtual tools. As more and more technology are brought into the classroom virtual labs also provide rich and dynamic learning experiences. They can be incredibly supportive of the current teaching methodology when combined with proper preparation and structure.





THANK YOU!

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