

n e w s



News from the trunk!
Thursday, October 7th, 2021

**BREAST CANCER
DAY WAS A HUGE
SUCCESS FOR
STUCCO!**



*Pumpkin Spice
and everything
Nice*



October Music Week

WHEN? Sunday 17th - Thursday 21st October
9.50am & 12.50pm every day

WHERE? In the covered area by the main entrance

WHO?

Sunday	9.50 Gr3	12.50 Gr8
Monday	9.50 HS	12.50 Gr8
Tuesday	9.50 HS	12.50 Gr4
Wednesday	9.50 Gr2	12.50 Gr8
Thursday	9.50 Gr8	12.50 HS



Letter from the Superintendent - Bridget Davies

Dear KAS Community,

As we head towards Fall Break I would like to thank all of you for your support of the school during this initial quarter. I am so happy that, outside security concerns, we have been able to be on campus 100% of the time with no known COVID-19 cases.

As we look to Quarter two I want to draw your attention to an upcoming event which I am sure your children will enjoy. Ms. Allie, our Music Teacher, is Organizing a week long music celebration. All students studying music will be performing in the quad every day at recess or lunch. We can't wait to hear what they have been learning.

This morning we also had the treat of listening to our Pre-School, Pre-KG and Kindergarten classes perform.

I look forward to sharing with you soon upcoming musical performances.

Have a lovely Fall Break!

Best wishes,

Bridget Davies



Music is Fun

This morning students and staff at KAS enjoyed a pre-holiday concert by music students in Early Childhood, Kindergarten, and Grade One. During the whole-school music assembly, the group performed "Music is Fun" where they demonstrated music class skills like clapping, tapping, dancing, and jumping. The second song was called "Ready, Steady, Go" where students highlighted KAS sports activities like running, jumping, and swimming. The students have been preparing for weeks and this was their first time performing together.

"At this age music is all about learning through enjoyment and the students certainly enjoy movement to music" said KAS music teacher Mrs. Allie.

During the week beginning October 17, students and staff will be treated to a school wide music festival. A variety of students will perform at various locations around the school during recess and lunch breaks.

Wishing you a safe and happy Fall Break!

Nicole Stacey
Student Support Services Coordinator



Saying of the week

The Old Chestnut is a phrase used to describe an old joke or excuse, something that has been heard many times before. The origin of the saying dates back to 1816 when the play *The Broken Sword* by William Diamond was staged in Covent Garden, London. One of the play's characters, Captain Xavier, often repeats the same joke about a cork tree, with light variations each time. At one point another character, Pablo, interrupts with the punchline and says 'It's a chestnut I have heard you tell the joke 27 times and it's a chestnut.' At some point later American actor William Warren was playing the part of Pablo and while he was being entertained at a society dinner one evening, another guest began to recite an old, well-known joke. Warren interrupted and said with a flourish, 'It's an old chesnut, that's what it is,' much to the amusement of everybody there. That is how the expression passed into the English language.



Minette van der Bijl
HS EAL Teacher

Fifth Graders

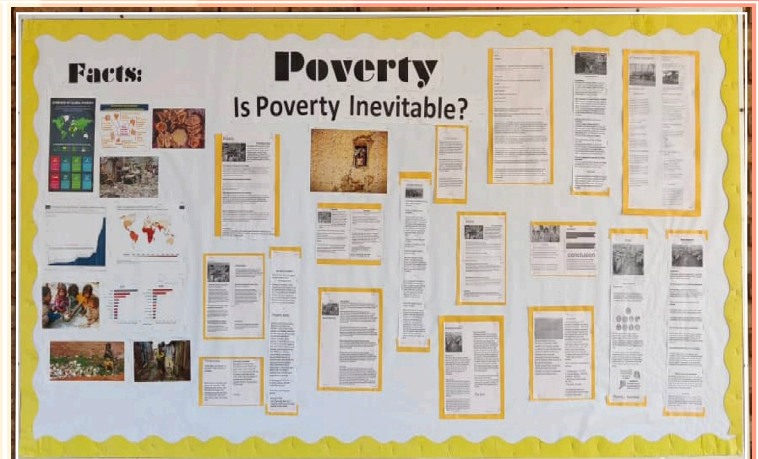
This year in fifth grade we are exploring a vast range of topics in social studies. Our fifth graders are currently working on the unit Global Citizenship, in which they explore the topic of poverty.

Throughout this unit students were exposed to the question "Is Poverty Inevitable?" The learning process and exploration for this topic took many aspects, from research to discussions and debates. Such an approach enabled our fifth graders to form a better understanding of the concept. This learning approach has helped expand the students understanding of the topic, allowing them to write their own essays using their expertise on the matter.

Students grasp a deeper and better understanding of concepts when they try different ways to explain ideas, emboldening questions and curiosity. Such learning opportunities, which allow students to combine a variety of approaches, empower them to make the most of their own abilities and efforts.

We are very proud of their hard work, it has been an interesting experience to hear their ideas and opinions.

Marieta Attalla
Grade 5 Teaching Assistant



FUSION ENERGY

Ethan Kim
Ms. Minette
2021.09.28
Independent Science Research Project

The History of Fusion Energy: Research and Development

As novel and modern the idea of fusion energy seems, the concept of nuclear fusion was proposed nearly a century ago by English physicist Sir Arthur Eddington. Eddington, in his thesis, "The Internal Constitution of the Stars," hypothesized that "provided only that it is intrinsic in the star, and not forced from outside, the density must be the leading factor in determining the period [of the star's pulsation and/or rotation]" [1]. This hypothesis was later affirmed by both private and state-funded research programs during the Cold War, with energy (specifically plasma) density found to be inversely proportional to the distance between nuclei—one of the most important steps in nuclear fusion.

The Cold War, in particular during the late 1940s and most of the 1950s, saw the rise of numerous research projects as states on both sides of the spectrum sought to develop thermonuclear weapons and reliable sources of energy for their use [2]. Thermonuclear weapons, contrary to atomic weaponry, which use nuclear fission to create the devastation as in Hiroshima and Nagasaki, utilize nuclear fusion. In field tests, thermonuclear (hydrogen) bombs have resulted in the release of energy many magnitudes larger than in fission, and a major goal for Cold War-era research programs was achieved [3].

The other major goal was to construct and operate nuclear fusion reactors in order to match the ever-rising demands for electricity and to secure a reliable and cheap source of energy. This aim, though, was kept in a secret for decades due to difficulties in the development of sustainable fusion reactors and the extensive development of fission reactors.

However, the fate of fusion development changed again when fission reactors were found to be indeed very hazardous, with repeated accidents causing public alarm [4]. Such concerns, combined with diplomatic efforts between the US and the USSR and both powers' desire for energy, resulted in the International Thermonuclear Experimental Reactor (ITER) program.

The resulting fusion reactor, located in southern France, is projected to generate power via a tokamak, a device that primarily uses magnetic confinement to "confine" plasma as effectively as possible. ITER is scheduled to undergo its first thermonuclear (plasma) fusion in 2025 [5], and its numerous difficulties and setbacks will be covered in the following article.

Sources:

[1] Eddington, Arthur S. "The Internal Constitution of the Stars." *The Scientific Monthly*, vol. 11, no. 4, American Association for the Advancement of Science, 1920, pp. 297–303.

[2] Conn, Robert W. "History of Fusion Energy Research." *Encyclopædia Britannica*, 23 Aug 1998.

[3] Rosenberg, David A. "American Atomic Strategy and the Hydrogen Bomb Decision." OUP Academic, Oxford University Press, 1 June 1979, pp. 62–87.

[4] Baron, Jonathon, and Stephen Herzog. "Public Opinion on Nuclear Energy and Nuclear Weapons: The Attitudinal Nexus in the United States." *Energy Research & Social Science*, vol. 68, no. 101567, Elsevier, 6 June 2020.

[5] Johnston, Hamish. "Flash Physics: Graphene-Based Loudspeaker, New Schedule for ITER, India Joins CERN." *Physics World*, 12 Feb. 2020.

Arabic in KG

Young students -in early education - can benefit a lot from the family involvement in early stages of their schooling, not only at KG level, but from preschool all the way to Elementary. This for sure is widely affected by the influence of both teachers commitment and family attitudes and obligation towards their child education.

When we first started this program (Arabic Language in KG) 5 years back, we thought of introducing KG students to an experience that would positively foster their language awareness and development; and as a preliminary step into Elementary education. The program now is working really well and turning out to be fruitful. We introduce them to Arabic Language alphabets in terms of shapes, and sounds. In addition to developing their speaking skills through telling and retelling stories.

Please do support your kid at home as we are committed here in Arabic department to deliver quality education to your KG student..

Thanks
Mr. Adani



STUCO

This Sunday, the student council organized an ice cream day. Students and teachers from all grades enjoyed different flavors of frozen popsicles. The event was a first-attempt from the student council at organizing an ice cream day. The day was a success but it had some flaws and the student council is willing to admit their mistakes, willing to learn from them, and ready to improve next time. You can all rest assured that the next ice cream day will be much better and more organized. With all transparency, we made about 27,000 SDG on Sunday from selling ice cream. You may all be wondering what the money will be used for. This money does not belong to the student council, but to KAS students. Various events will be organized and we will make sure to include students from all grades at different times. For example, the student council is currently organizing a Nile camping trip for KAS high schoolers. The money will make more improved ice cream days possible, and will help the student council bring more enjoyment at KAS. Thank you for all your support to the student council; we're very appreciative and honored.

-- Student Council Treasurer, Abubakr Abdelrahman

