

The Paw Print

October Issue

Lolla 2k18

Internship
Experience

Elephants
Resist to
Cancer

Outbreak in
Chemnitz

New Comic Series!

Humans of BBIS

BERLIN
BRANDENBURG
INTERNATIONAL
SCHOOL



Editors Note

Hi there!

For those of you who are new to this school, welcome! And to our returning readers, welcome back! We on the Paw Print team hope that you have all had a relaxing and fulfilling summer vacation, and are ready for another year full of fun and learning. For this year's opening issue, we've curated a selection of articles, covering everything from the violence in Chemnitz to cancer resistance in elephants, so there's sure to be something in here for everyone!

We also want to take the opportunity to introduce a questionnaire to go along with this month's issue. One of the assets of our multicultural community at BBIS is the variety in spoken languages that can be found on campus. In our May issue, we experimented with publishing articles in foreign languages and are now curious about whether you'd like us to publish more. You can respond to this by following the Survey link to four multiple choice questions on our website bbisnewspaper.wordpress.com.

If you would like to contribute to the newspaper, you are very welcome to submit an article or give us feedback at bbisnewspaper@gmail.com. You can also visit www.bbisnewspaper.wordpress.com for more info or, join us when we meet the first Tuesday of every month in Ms. Barker's room, 3409.

Cheers!

Luca Pistor and Chantal Materne
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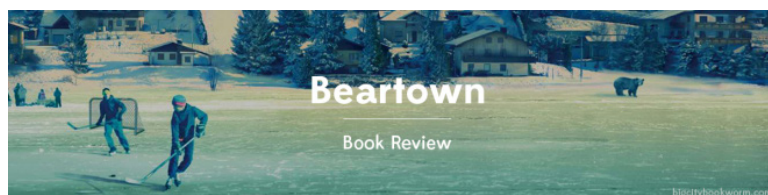
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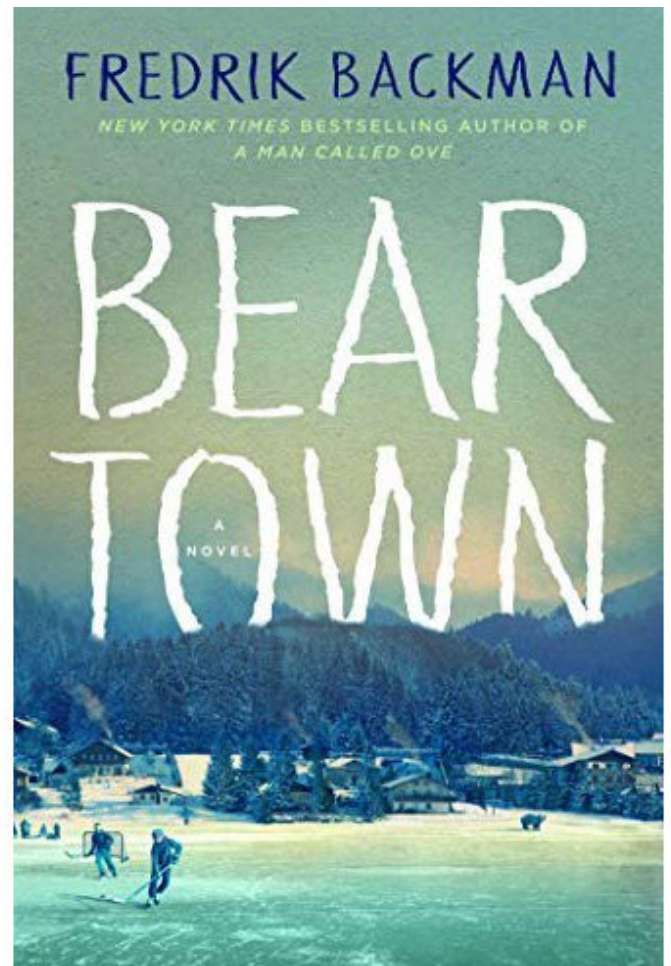




By Isabelle White

In a rural town in Sweden, a community lives beneath a thick blanket of snow and ice for the majority of the year. The citizens of Beartown all share a love for hockey and their town. The novel begins by introducing a hockey team attempting to win the town's first championship. With a big win, the team would gain glory in the world of hockey, scholarships, as well as a surplus of money going towards Beartown's economy. It looks as if the team will accomplish their goal, until one single, violent act by a team member changes everything. The entire community's beliefs are jeopardized as this life-altering event even makes the reader question his hope in them.

"Beartown" by Fredrik Backman proved to be an outstanding read. Backman captures the audience's attention from the very first page and continues to build suspense throughout the novel. The story is told from multiple perspectives by several characters, adding to the overall drama. Backman offers different opinions on sensitive subjects, and challenges the reader to reevaluate personal beliefs. "Beartown" also contains heartwarming themes regarding family, friendship, and courage. Writing about a horrific event that takes place in just one small town in the middle of a forest, Backman is able to capture the reality that every town in the world could have faced and can face again until we change what we believe about what it means to be a community.



Summer Internship Experiences

By Luca Pistor

Are you unsure of what course you'd like to study in university? Consider spending your summer vacation finding out! Thanks to the accessibility of summer internship opportunities – paid and otherwise – it's never been easier for high-school students to narrow down their career paths from a broad subject to a specific interest. As an example, I'll share my summer internship experience. I've known for several years now that I want to study biology when I go to university, but past that, I've been a bit uncertain. Would I prefer to study for a degree in medicine, or would I be more interested in doing research instead? This last summer, I accepted an offer to spend six weeks interning for a cardiologist at the

University of California, Los Angeles. During my time at UCLA, I immersed myself in the world of medical research, learning a lot about statistical analysis and different risk factors for heart disease. By the end of the six-week period, I came out with both a finished research paper and the newfound certainty that I wanted to become a research biologist. Discovering what my specific field of interest was within the field of biology would have been impossible without actually involving myself in medical research, and it is for this reason that I strongly advise any interested students in grades 9-11 to spend their next summer learning about their favorite subject in more depth. The difficulty in finding an in-

dustry professional willing to take on an intern is often cited as a sticking point, but this difficulty is often overblown; students unable to find a professional in their field willing to take them on may simply not be looking in the right places. Talking to family friends who work in related industries can often yield positive results, or students can even contact universities to ask whether they know of any possible internship opportunities. The point is, internships are a priceless opportunity to help increase a student's knowledge of a subject, and to get used to working in industries which interest them. So over your next summer break, why not make an experience you'll remember?

Elephants' Resi

By Jaqueline Breitkreuz

Since the elephant is a very large animal, one might think that its likelihood of developing cancer is pretty high. The fact is however, only 1 in 20 elephants develop cancer, compared to the 1 in 5 humans that are affected by cancer at one point in their lives (Yong, 2018).

Cancer is a group of different diseases sharing several characteristics. It involves abnormal growths of mutated cells that divide at fast rates, invading tissues with the potential to spread across other parts of the body. Larger animals are comprised of more cells, therefore, by common sense they ought to have an increased risk of developing cancer. This postulate holds true within species; taller humans are at higher risk for developing tumors than shorter ones, larger dogs are more susceptible to malignant growths and so forth. However, this is false across different species. The rate of tumor growth is not solely dependent on the number of cells in an organism. Most mammals have a cancer development risk of approximately 10%, disregarding their size (Yong, 2018).

The hypotheses for this confusing fact range vastly. The most common one is that larger animals have more cancer-suppressing genes to prevent the disease from expanding. In 2012, Vincent Lynch tackled this hypothesis by studying the curious case of elephants and their strong resistance to cancers. Lynch discovered a high abundance of tumor-suppressors in the genome of elephants, especially the gene P53. This gene is responsible for repairing damaged DNA – a primary cause of cancerous genetic mutations. If the damage is irreparable, the P53 genes signal the cell to destroy itself before becoming a tumor in a process called apoptosis. Lynch found 20 copies of P53 genes in elephants, compared to humans, who had only one. P53, however, is not the only tumor-suppressor that elephants hold. Recent discoveries made by one of Lynch's students, Juan Manuel Vazquez, show that elephants possess many copies of another gene called LIF (Yong, 2018).

Resistance to Cancer

LIF genes are mostly pseudogenes, meaning that they are dysfunctional; however, elephants were found to have at least one copy of the “zombie” LIF6 gene. The LIF6 gene used to be expressed in the past but was deactivated through the course of evolution. In this instance, it once again began being expressed, hence the name: “zombie gene”. The LIF6 gene is triggered by the P53 gene’s detection of damaged DNA. The LIF6 then induces apoptosis in the mutated cell and thus greatly reduces the risk of cancerous growths in elephants (Yong, 2018).

Dr. Joshua Schiffman, a pediatric oncologist, believes this knowledge can eventually be applied to human cancer treatments as well. Although there are many steps necessary before human trials commence, such as inserting elephant genes into mice, “This will not be the final story,” Schiffmann says (Nedelmann, 2018).





Lollapalooza

08. & 09.09.2018 **BERLIN**

OLYMPIASTADION & OLYMPIAPARK BERLIN

A Weekend of Voice and Dance

By Meila Heidt

Music festivals - a place to enjoy live music from multiple artists over multiple days, creating ecstatic feelings and allowing the spirit to roam freely.

On the weekend of the 8th and 9th of September the festival named Lollapalooza took place in Berlin. The annual celebration took course over total of two days were multiple artists performed, among which were Kygo, Imagine Dragons, Years & Years, The Weekend and Dua Lipa. The originally Perry Farrell-organised festival in 1991 took place in Berlin at the Olympia stadium and the surrounding gardens this year, 2018, after its recent showing in Paris, France. A total of five large stages occupied the Lollapalooza grounds, with some of them named Alternative stage, and Perry's stage, and Weingarten stage. Although the festival only lasted a total of two days, many attendees arrived from other countries within Europe and other cities within Germany itself to experience their favorite artists performing live, and by the end it was reported that the festival was a host to a total of 85, 000 attendees.

Even though gates officially opened at 10:00 each day, many decided to arrive between 11:00 am and 14:00, as the artists they preferred only arrived around 15:00 or 16:00 later during the day. On the first day of the festival, Saturday 8th September, Years & Years was one of the starting artists with a larger crowd. Following the performance, the empty spaces began to fill up as other internationally recognized artists began to arrive on stage. Nonetheless, in between each performance, there was time to refresh at the stands labeled drinks & cocktails. A complete food court dedicated to serving international food including Thai, and Burgers and Pizza, Sushi, and even occasional stands for vegan food even occupied the Lollapalooza festival grounds, yet the payment for buying food or drinks was perhaps the most bizarre design yet. It was strapped around everyone's wrist; the festival had set up a system that would allow one to pay through a charge shipped within the bracelet you received at your entrance.

This chip could be charged online with credit card or physically at a charging station within the festival boundaries and the lowest possible and price to put on the chip was € 20. However, those who decided to charge their chip with little money and buy a couple of drinks, were forced to re-charge that chip again to survive throughout the day. With this came the disadvantage of waiting in line

to do this for multiple minutes or for to some extent, hours.

With this, the international festival that has been around since the end of the twentieth century has yet again succeeded in the terms of total attendees this year in Berlin, and has avoided chaos to a new extent, allowing for a more systematic two music festival days.

Lollapalooza
BERLIN
08. & 09.09.2018
OLYMPIASTADION & OLYMPIAPARK BERLIN

SEAT

THE WEEKND • KRAFTWERK 3D
IMAGINE DRAGONS • K.I.Z • THE NATIONAL
DAVID GUETTA • KYGO • CASPER • ARMIN VAN BUUREN
LIAM GALLAGHER • BEN HOWARD • DUA LIPA
FREUNDESKREIS • RAF CAMORA & BONEZ MC
SCOOTER • RAG'N'BONE MAN • YEARS & YEARS
FERG • VON WEGEN LISBETH • TRETSMANN • SXTN
RIN • THE WOMBATS • FINK • DVBBBS
SHOWTEK • NERVO • JONAS BLUE • FRIENDLY FIRES • SOFI TUKKER
JORJA SMITH • LEWIS CAPALDI • WOLF ALICE • KAT FRANKIE • FIL BO RIVA
OLIVER KOLETZKI • SAN HOLO • ALISON WONDERLAND • OFENBACH
DANNY AVILA • ALEXIS TAYLOR • GURR • DHANI HARRISON
GIANT ROOKS • THE NIGHT GAME • SMIIIE • MOKOOMBA
WEINGARTEN: HELGEN • MANUEL MÖGLICH • THORSTEN NAGELSCHMIDT • L.A. SALAMI
HAK BAKER • BERLINER KNEIPENCHOR • CLAUDIO DONZELLI • LAURA CARBONE
DAVID KEENAN • BERANGER • KENDY GABLE • THE EVERETTES • APEY

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CHEMNITZ

By Julius Behner

Like any other country, Germany has virtues and vices. One of the latter is far-right extremism, which might be one of its worst flaws. Throughout the first two weeks of September, there have been protests and brawls throughout Chemnitz, a city situated 250 km south of Berlin. It is the third largest city in Saxony with a population of about 247,000.

In the late evening on August 25th, a group of men were involved in a quarrel. Three of them were injured and one died in hospital after having been stabbed with a knife. Two immigrants originally from Iraq and Syria were arrested as suspects.

This incident caused several protests on the following day led by the AfD (Alternative für Deutschland) to ask the government to be stricter on immigration.

This stabbing had been the spark to light the fire for several protests during the following

days against migrants and refugees moving to Germany. Far-right and neo-Nazi groups organized protests that became violent. Individuals attacked foreign-looking people and the police.

Although media could give the impression that a huge amount of people share the opinion of these protesters, this is definitely not the case. People living in Chemnitz and all over Germany were shocked by this outburst of hate.

On September 3rd, more than 65,000 people visited an anti-racist rock concert in Chemnitz to protest against the far-right and Neo-Nazi activity.

It is important that we remain critical regarding what the media projects to us. We need to learn to question everything, and find multiple reliable sources to create our own opinion.

Berlin Nineties

Molkenmarkt 2 10179 Berlin

By Donnya Torkaman

"Berlin Nineties" is an exhibition curated by Michael Geithner and has the purpose of reconnecting the younger generation of Berlin to the loud, colorful and unique Berlin of the 90s.

The museum consists of four rooms and allows you to experience the exotic and unpredictable capital through images, audio and mazes. The first room, named 'Berlin Island,' projects a panorama film which displays the history of Berlin from 1949 to 2000 using historic photos and videos, along with a light show and soundtrack.

'Berlin Heads' is the second room, where visitors can listen to thirteen different interviews of witnesses and famous personalities who describe the post-revolutionary culture of Berlin.

The third room is called 'Fear and Feel the Wall.' In this area, original segments of the Berlin Wall are being displayed, and you can read about it on six large information boards.

The final room, 'Lost Berlin,' is a colorful labyrinth in which visitors get acquainted with lost or forgotten places, club culture and techno movements such as the Love Parade.

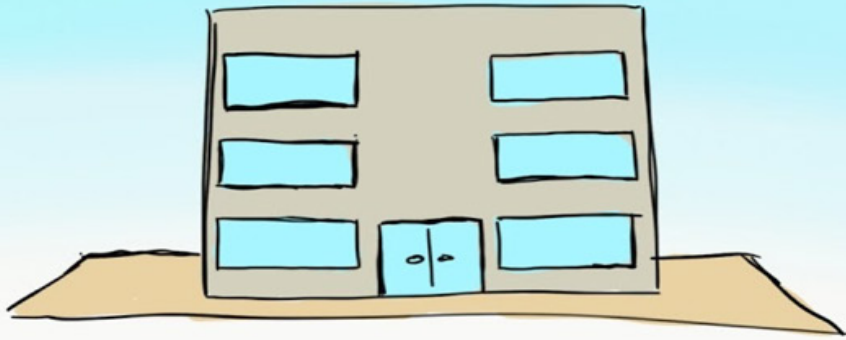
From start to finish, this exhibition allows one to travel through time and experience various aspects of Berlin's recent history, as it acts as a bridge between the younger and older generations who live in our vibrant, bustling city.



COMIC

By Ada Basford

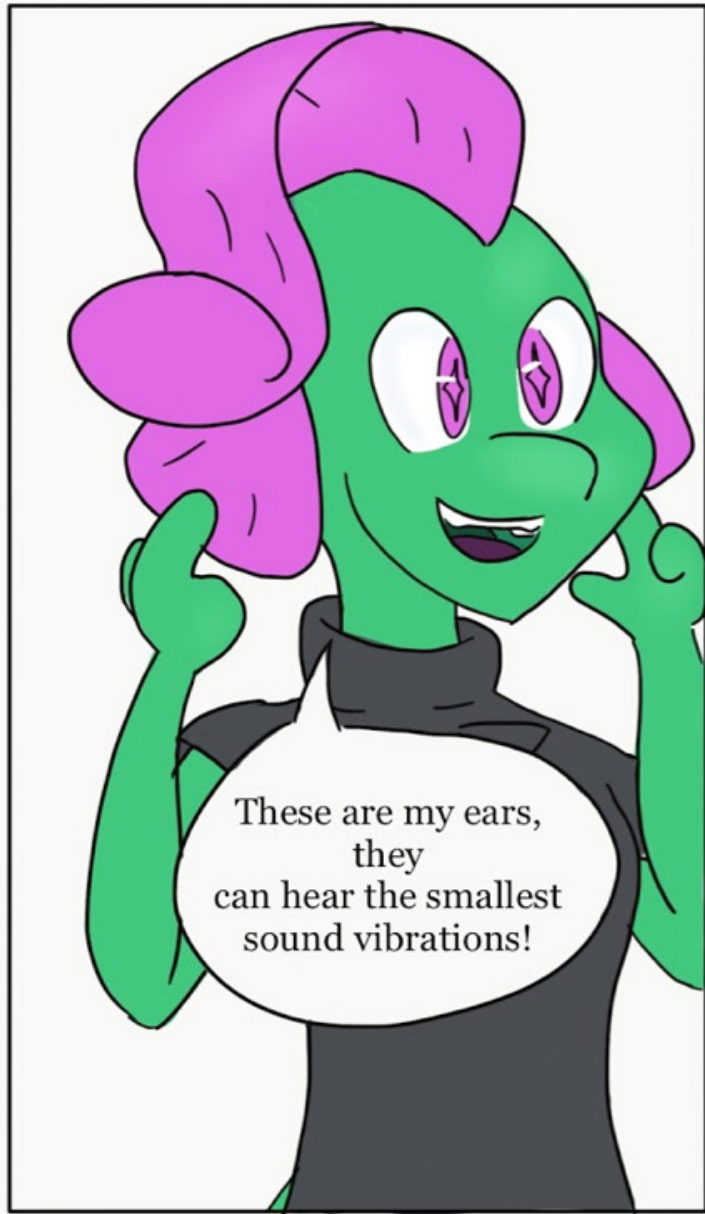
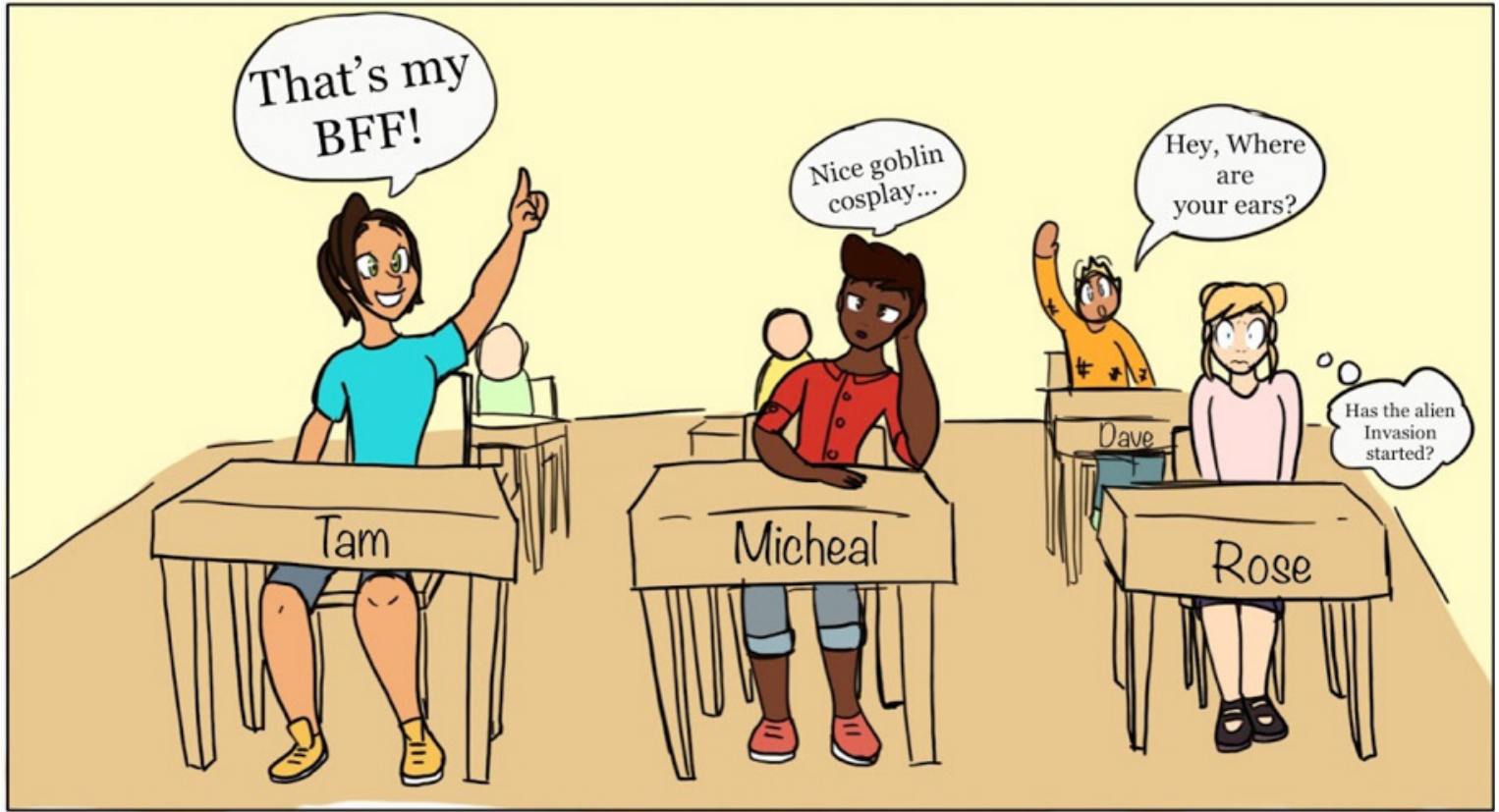
First Day of Earth School



Good morning class! This is our new student!

Hi I'm Rani Ra'wa! I'm from the Neighboring galaxy!

Nice to Meet you, other earthlings!



End of first day (or is it...)

¿ Tiene Brasil energías renovables ?

By Chantal Materne

El país más grande de Sudamérica es Brasil. A pesar del desafío económico reciente que conllevó tasas de interés altas y una devaluación de su moneda, Brasil todavía representa un gran mercado para las energías renovables. De hecho, se cree que la inversión en este sector aumentará exponencialmente. Para una población de 200 millones, solo nueve gigavatios de energía eólica están ya instalados. Hasta ahora, el viento y la hidroelectricidad han dominado el negocio de las tecnologías ecológicas, con veinticinco mil millones dólares destinados a ser invertidos en turbinas hasta 2030, pero el solar también está haciendo su entrada. Los formuladores de pólizas han fijado el objetivo ambicioso de obtener veinticuatro gigavatios de electricidad

del viento y siete gigavatios del sol antes de 2024. Efectivamente, se planea que la fuerza solar incremente un 750%.

Estas son ciertamente noticias positivas para la República Federal de Brasil y para el mundo. Hay progreso y esperanza porque la inauguración del Congreso Internacional de Energías Renovables de Brasil (BIREC) tuvo lugar en noviembre de 2016. De esta manera, la economía más importante de América Latina puede levantarse de su recesión. En términos de hacer el cambio de combustibles fósiles a las generaciones de electricidad sostenible, Brasil puede desempeñar un papel ejemplar decisivo en América del Sur.

Withered Flowers

By Friso Althuis

Short Story Continued

Episode 4

The leader had green eyes, a nose that wasn't quite massive, and a short beard. Robert's own eyes were brown, his face slightly scarred, and clean-shaven. He wore a very dark grey jacket and lighter grey trousers.

"Here we are again Rob. How long has it been?" Henry's voice was not very deep, but there was no missing the sincere seriousness. He was sizing up the person sitting in front of him, possibly comparing him to their previous encounter. Robert didn't reply; both knew that it had been just a year ago. "My men took to calling you the 'hermit' after that, but you aren't the only one of your type." Last year, the raiders found his secret and he attacked them, but they didn't kill him. Two of his scars were from the fight he put up. "What do you want from me this time?" He asked, looking p at the leader. Henry brushed the question off. He smiled.

"Would you like me to tell you how this group came to be, Rob?" Robert never liked raiders. "We banded together because we couldn't start a farm or set up some new way of living normally like the folks over in the city. We survive by looting and stealing from places that were abandoned after what happened. That's what we do. We don't burn things down or keep crazy traditions like the other knucklehead leaders of their 'war-bands.'" He paused and stared at Robert. They were about the same age. Robert looked around. "How very interesting. But I want to know how you here got this band on a leash." Through the holes in the roof, it was getting to full-dark.

"How nice of you to ask." Henry said. "After what happened, I just wandered with my family, trying to survive like the rest. For almost two years, it must have been. Then we lived in the city, they turned sick, we were kicked, and they died out here in this wasteland." Pain showed on his face. "It was beautiful here once. I was about to do what the sickness hadn't done to me until I ran into two families, both of which had five people. They're sitting over there." He pointed to a different section of the building. "They had supplies, they had shelter, they had each other. They saved me, and I decided to protect them and tell them what to do. To live, or stay alive." He added. "Most of the stragglers we've picked up since then are people that have been kicked like my family was. We're about forty strong." Robert now looked up to Henry with respect. He hadn't been given the speech last time, and he wondered if Henry had lead his people here just to give it.

He thought for a moment, and said, "That's a moving story, but I'd like to ask why you had me brought here. I offered to give these three my bag to get away. You could have taken it. And I'd like to get home; I've got a meal to get to." Henry nodded as he listened, and beckoned one of his followers to give him something. "That's true enough, Rob. I just wanted you to know you're welcome to eat with us. We're moving out in four days. And I believe these are yours." He said, handing Robert the flowers.

Wolf Howls

By Moana Kammerer

Short Story Continued

Chapter 2

One wolf howl is followed by another, then another, and another...

Their steamy breath white in the cold air, the crunch of paws breaking through the first snow. The first snow it may be - but it was deep, deep, deep.

At a glance from the lead pair, Oldgrey and Darkfur, the rest of the pack sticks their muzzles into the snow [a trick to make the prey think that they are far when they are close].

The elk before them was a mighty creature that could kill a lone wolf with a kick, but a pack of wolves together is a threat even for a bear.

The pack approached silently, golden eyes shining, tensing to leap, waiting for the signal of the lead pair.

A glance of an eye, a heart beat, the wolves spread out, chasing the elk to where Oldgrey and Darkfur lay in wait to bring it down with the swipe of mighty paws.

The whites of the elk's eyes were showing, and its terrified panting threw a screen of mist into the air. A powerful bite, and it was over.

The wolves slunk back respectfully to let the lead pair feed.

Then the next, and then the next, until the almost-cubs could have their turn to feed.

The pack dragged back the carcass, padding silently after the successful hunt, and they curled up in the den.

Days passed until the beginning of deep winter.

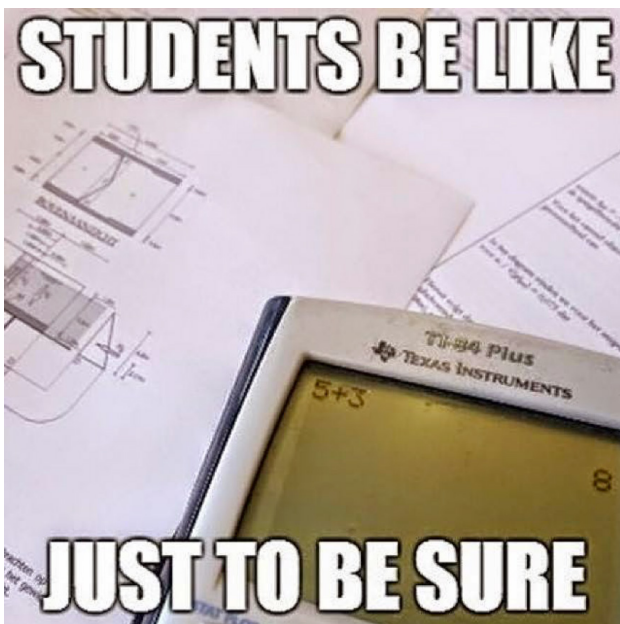
And deep winter is deep...

HUMANS OF BBIS



Ms. Robichaud, Biology and Chemistry teacher: “The people living east of Quebec are called the Acadians. We are a French-Canadian minority, and our flag is the French one with a yellow star in the top left corner. French is thus my first language. In fact I was one of the first in my area to graduate the fully French program. I’ve been living in Germany for five years now. I would define identity as who I am and by what surrounds me. I believe that my environment made me who I am. I am thankful for being multicultural, because speaking more than one language has helped me, for instance in the process of learning German. I think that it keeps doors open. Working in a diverse community like BBIS also pushes my limits, which is what I enjoy about my work, otherwise I wouldn’t be teaching.”

MEMES



QUOTATION OF THE MONTH

“If Pringles cared about their consumers, they would make their product taste better. Don’t @ me.”

- Mr. Chamberlin



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