



The Bear Essentials



The International School of Busan Weekly Newsletter

Friday 11th November, 2022

Volume 4, Issue 12

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14th-18th November - Kindness Week
17th November - SKAC HS Volleyball Final at ISB & BFS
18th November - School Closed (Staff Training Day)
19th November - SKAC MS Futsal Final at HIS
22nd November - SKAC STEM
23rd - 25th November - Grade 11 Exams
28th - 30th November - Grade 12 Exams
28th November - Season 2 ASA's begin

Extended Essay Handover Celebration



This week, our Grade 12 students celebrated a major milestone in their IB Diploma Programme journey - completion and official handover of the Extended Essay. The extended essay is an independent, self-directed piece of research, finishing with a 4,000-word paper. It was great to have parents, teacher supervisors and Grade 11 students present to congratulate the Grade 12 students, learn from them and show appreciation to the supervisors. Following the ceremony, our Grade 12 students enjoyed a well-deserved pizza party and then went bowling together! Congratulations Grade 12! You did it! We would like to thank the PTA for helping with the organisation and providing tasty refreshments



The ISB Academic Scholarship

2023/2024

The aim of the Academic Scholarship Programme is to foster and celebrate academic excellence. Scholarships are awarded to candidates who demonstrate outstanding academic ability, based on aptitude and potential.

Apply Now

Scholarship Concessions from 50% to 100%

Application Deadline 16th April 2023

For details please visit www.isbusan.org



More info: admissions@isbusan.org Website: www.isbusan.org +82 51 742 3332

ISB Academic Scholarship

The application period for the ISB Academic Scholarship Programme is now open for new students. An ISB Scholarship is a prestigious award that targets the very best academic scholars. Scholarships are awarded at three different grade levels: grades 9, 10, and 11, and there are various categories available.

More information about scholarship categories as well as the application process can be found on our website at www.isbusan.org. This is an amazing opportunity for students and is of significant benefit to those looking to enrol in an outstanding university.



ISB Hosting 'Korea Google for Education Summit'
The [Future of Education – Korea Google for Education Summit](#) will be taking place on campus from November 18th to 20th. This is a professional development conference that will bring together talented teachers from around East Asia to the ISB campus. It will be one of the first major face-to-face international school conferences in the region since the start of the pandemic.

For ISB, this is a chance to highlight our amazing school, teachers and pedagogy on a world stage! The focus of the event is 'The Future of Education'; taking the lessons from the pandemic and applying them to the new vision of teaching and learning for the future. We have some fantastic keynote speakers signed-up and our teachers are excited about this fantastic professional development opportunity.

Please note there will be no school on Friday 19th November while the conference takes place.

Bringing our Guiding Statements to Life

The [ISB Guiding Statements](#) are visible around our school in both English and Korean. They were developed by ISB staff, students, parents and board members and they drive everything we do here at school. Our job is to ensure that our mission, vision, values and beliefs drive our planning and our decision making. Our action plans operationalise our guiding statements. Two of the whole-school goals taken from our action plan this year are:



Simon McCloskey

- Identify ways to further support the mental health and wellbeing of all learners on campus
- Redevelop our learning spaces to ensure that they best meet the needs of our learners and support our stated aims as outlined in the ISB Guiding Statements.

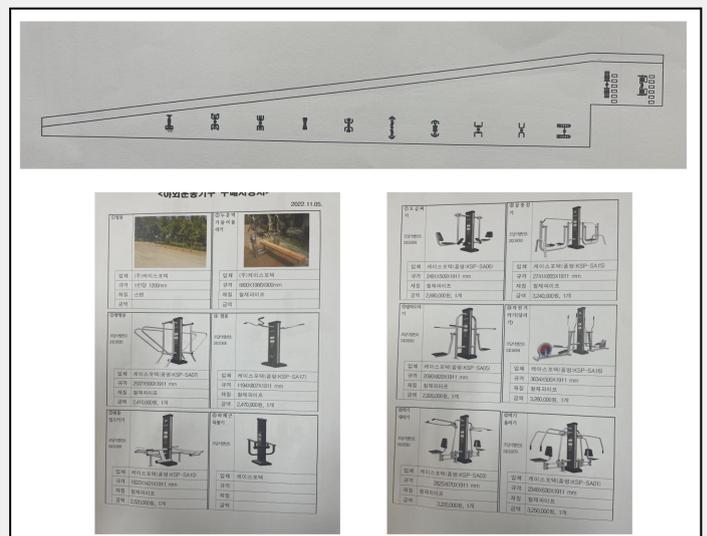
This week, I am pleased to share details about two projects that we have going on at school to help us meet these two objectives. Ensuring that our teachers and staff feel valued, respected and have a comfortable place to meet and relax while at work is one way we are supporting their health and wellbeing. Over the fall break, we redesigned and renovated the Elementary and Secondary Staff Lounges. They were officially inaugurated during snack time this morning and they look and feel great!



Encouraging students to keep fit and active is one of the ways we are supporting their health and wellbeing. On Monday, work will begin on a new outdoor gym. Equipment will include sit-up stations, pull-up bars, a bench press station and a range of other equipment. There will be 12 stations so that the gym can be used during PE lessons, with pairs working in rotation around each station. Secondary students will also be able to use the equipment independently at break times. We hope to complete the work by the 3rd December.



Location of new outdoor Gym.



We are so happy to see the return of overnight camps in Elementary! Grade 5 students and teachers have spent the last 3 days on their camp in Geoje-do. This is the first overnight camp away from school that we had been able to have since the beginning of the Covid-19 pandemic!

We will have more details of their experiences in the newsletter next week. Here is a photo of the students and teachers as they set off on their adventure.



Kevin Smith



Scratch ASA

We had an enthusiastic group of young coders from Kindergarten to Grade 5 in our Scratch ASA this season. Some of the students were new to the platform and learned the basics to create their first project. Others have had more experience and were able to create complex games in Scratch.

We want to share our projects with you in our [ISB Scratch Studio](#). Have fun exploring the creations from our 'Scratchers' and we would love it if you could share comments and feedback on them.

Cross Country Meet in Daegu

Well done to our cross country team for a wonderful day in Daegu on Tuesday. We are very proud of all of your achievements and congratulate you all on a race well run. It has been wonderful to see so many students enjoying running, improving, encouraging each other, and having fun. Thank you all for being such an important part of the ISB cross country team 2022!

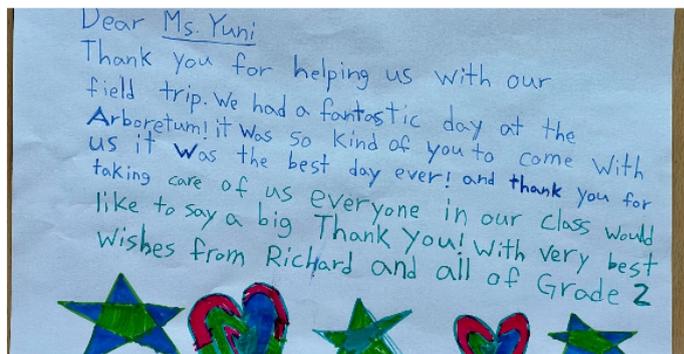
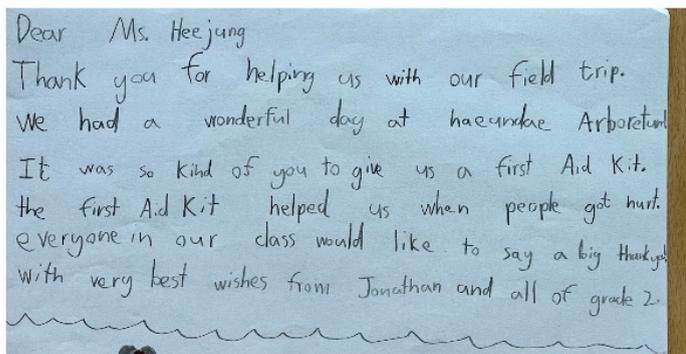
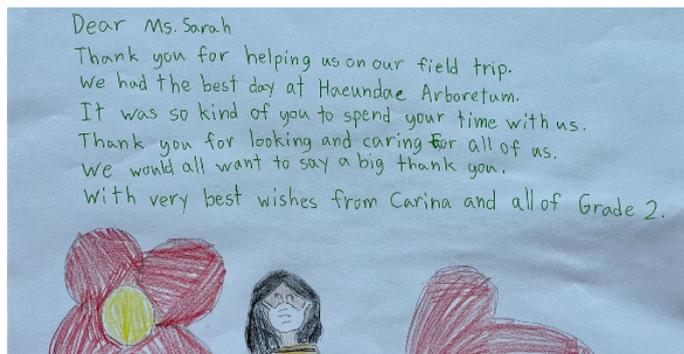
We had 25 ISB runners competing with a total of 7 schools, with 140 runners taking part. We are very proud that all of our runners supported everyone else on the course and had such a fun day out as a team. We hope that you are all inspired to be runners for life! We would also like to congratulate our Elementary medal finishers:

- 🥇 ES Boys 1st Place: River
- 🥈 ES Boys 2nd Place: Tomas
- 🥇 ES Girls 1st Place: Anna
- 🥉 ES Girls 3rd Place: Morgan



Kindness and gratitude at ISB

The Grade 2 students have been discussing the importance of saying 'Thank You' to others. We wanted to show our gratitude to all the people who helped us with our wonderful field trip to the Haeundae Arboretum. The children tried hard to use their best communication skills and most beautiful handwriting!



Assembly

In our assembly time this week, students gathered in House Team groups to learn about Kindness in preparation for our celebration of Kindness next week. Students watched a video and listened to a picture storybook about Kindness. In next week's assembly we will be sharing our activities with each other. Thank you to the teachers for organising a fun and informative session.



Early Years 2 Cardboard Box Exploration

What can we make with a big box?

“AN AEROPLANE”!

The children discussed their ideas and collaboratively turned the boxes into an aeroplane. They decided where the windows and the door should be, they thought about colours and how many people could go into the aeroplane. The children had an opportunity to use a cutter to make holes for the windows. Later on, they made two additions to the planes - oxygen masks and seatbelts. They were pretending there was an emergency happening and were talking about what they could do on the flight. The classroom was full of discussion, excitement, disagreement, and laughing!



The children demonstrated creativity, collaboration, and problem-solving skills through this experience.

What a fun week!

Yoobi: "I want to go to Taipei".

Somie: "I am going to Greece".

Evelyna: "I am going to Greece with Somie".

Levin: "I need to catch the aeroplane and I am going to Italy".

Leon: "Oh my gosh! There is fire on the flight! We need to put on our seatbelts and mask".

In Art EY2 were exploring cold colours. They discovered light blue and dark blue.



Fractured Fairy Tales in Grade 3

Grade 3 students have worked so hard to publish their own fractured fairy tales. This week they read their stories to their first grade buddies and then turned them into a puppet show which they presented to each other.



Grade 5 inquire into Ocean Ecosystems

Grade 5 took their ocean ecosystems learning outside by partnering with Save The Mermaids, an outdoor education and sustainability organisation, to do a beach clean-up at Songjeong beach. Students learned about microplastics and the effects of our negative and positive actions on the ocean.



On Monday, students continued their inquiry by sorting the trash and identifying different ways THEY could take action to make a positive change in the world.

A special thank you to Save the Mermaids Korea for creating a wonderful learning experience for our ISB students!

From the Secondary Principal

A thank you to our Student Council who, last Friday, conducted team building activities at the end of our assembly time. Our student leaders did a great job of coming up with and running activities for some fun and to help each grade level work more effectively as a team. The Student Council also organised and delivered candygrams as a fundraiser for future Student Council events. It is great to see student leadership in action! Another set of leaders from our Anchored for Life group led wellbeing activities during our Wednesday Homeroom class. The student leaders ran workshops on stress management and mindfulness.



Gilles Buck



This week, we celebrated a major milestone of our Grade 12 students, the completion and official “handover” of the Extended Essay. It was great to have parents, teacher supervisors and Grade 11 students present to congratulate the Grade 12 students, learn from them and show appreciation to the supervisors.



A big thank you to Mr. Nico Gysbers, our Extended Essay coordinator and Ms. Merriss Shenstone, our DP coordinator for organising such a thoughtful, celebratory and meaningful ceremony.

Our first season of After School Activities wrapped up this Friday. Lots of meaningful learning takes place during the ASA program and, of course, lots of fun too. This week the cross country team competed in their SKAC finals and MS football competed in KISAC. Congratulations to all our participants. Next week, although the season is officially over, Volleyball will continue until the final SKAC tournament on November 17. We look forward to season two ASAs which will begin on November 28th.

As always, this week was full of learning throughout the Secondary School. Please read through the departments section for some highlights from Mathematics!

College Corner

Our College Counselor, GJ Johnson, will be updating College Counseling information in this section of the Newsletter every other week. Here is this week's edition of the [College Counseling letter](#).

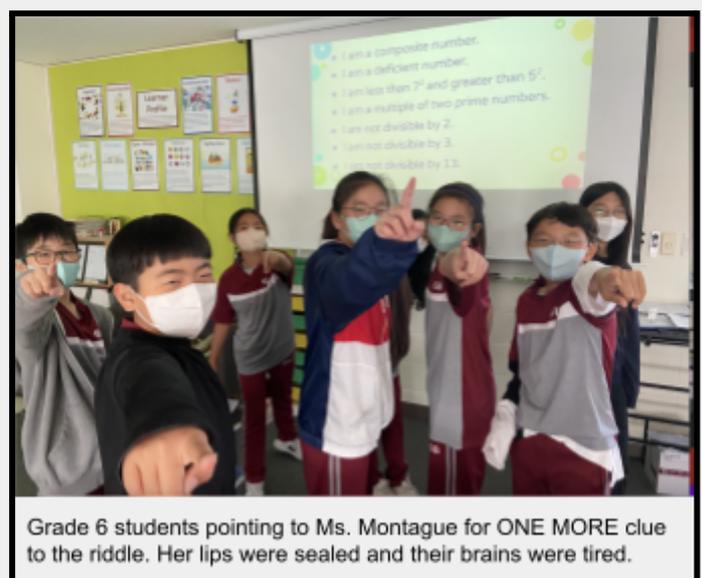
Secondary Learning Focus

In the Mathematics Department

In most grade levels we have finished our first unit. Many of these units give students the opportunity to use maths concepts from the unit in the real world. We call these types of tasks 'applications' and it is one of our four criteria for Math in the MYP. When students apply Mathematics they also consider reasonableness and accuracy. When students consider reasonableness they consider whether or not their results 'make sense' and when students consider accuracy they consider how close their results are to a 'true value'. We are now working through our second unit, where students will be focussing on developing their investigation of patterns skills.

Maths 6

In Grade 6, maths students are getting to know key numbers like "the back of their hand" as they analyse and classify numbers so that they can work smarter and not harder with them. They can tell you that 24 is composite and abundant, 21 is deficient, 28 is perfect, 17 is prime, and 14 and 15 are relatively prime. Being able to quickly recall key facts, recognize patterns, and see relationships with numbers will help them with rational numbers both this year and next. Fortunately, it is not all hard work. Game based learning is key to this unit. You can play too. Go online and play the [Factor Game](#) or [Product Game](#). Challenge your mental maths skills with mathtrainer.io.



Grade 6 students pointing to Ms. Montague for ONE MORE clue to the riddle. Her lips were sealed and their brains were tired.

Maths 7

Students have finished a unit on Rational Numbers and the culmination was the production of a journal of travel of a famous explorer as they travelled around the world and of their own journey through space. Students included the use of integers in distance, direction and weight in space in their entries. The exercise gave students an interdisciplinary experience and opportunity to apply understanding from different subject areas.

July 26th, 1497

I feel exhausted. We have reached the Cape Verde Islands. Coordinates 17° and -28° .
 $39 - 17 = 22^\circ$ change in latitude.
 $-9 - -28 = 19^\circ$ change in longitude.
Our food is still high, and my crew is still alive, but this is tiresome work. Against these winds, it is very slow. Time rolls by, weeks feel like days. Getting everything in order leads to my exhaustion. Every couple of days one of my crew dies and we have no idea how. Perhaps scurvy. If I get it myself, this whole expedition would be for nothing and it would fall apart. I have to keep going.

March 2nd, 1498

19° south and 36° east. We have reached the Island of Mozambique.
 $-34^\circ - -19^\circ = -15^\circ$ change in latitude from Cape of Good Hope.
 $18 - 36 = -18^\circ$ change in longitude.
Many of my crew were sick with scurvy, and we have already rested a month repairing our ships. Food stocks are low, we might not survive the next week. It is good to arrive to a city. These people trade with Arab merchants gaining gold, silver, jewels and spices. This is very useful and could be the key for Portugal. I have also learned that Prestre John, the Christian ruler, held many coastal cities. As we leave, they supply us with 2 pilots who are untrustworthy, but useful and so, our expedition begins again. The change in latitude and longitude from here to Mombasa is
 $-19 - -4 = -15^\circ$ change in latitude
 $36 - 40 = -4^\circ$ change in longitude.

Journal Entries

October 14, 2026

I had been waiting for this day to come. The day that I get to experience space travel for real. All the preparations that had been done have been for this day. All that arduous work of training and practice will finally pay off for today. My crew of 3 (excluding myself) were smart and serious. I could not ask for a better crew. They knew what to do in every situation and would easily be able to get us into outer space and back again. Our ship, the Apollo 18, was also ready. We had 2 rocket boosters each containing 1.1 million pounds of fuel. So 2.2 million pounds of fuel in total. Takeoff usually lasts 30 seconds. Each second 11 000 pounds of fuel is used.

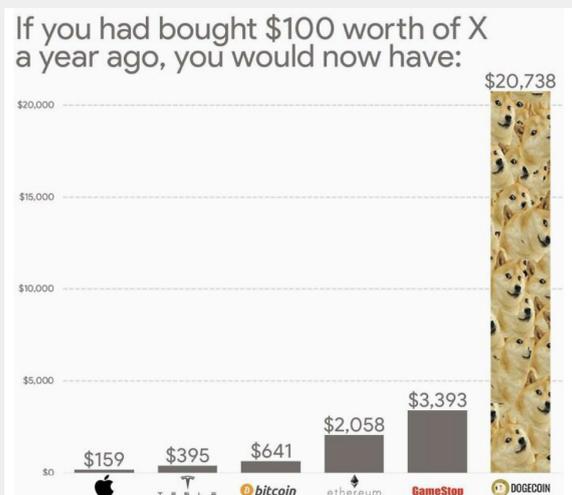
$11\ 000 \times 30 = 330\ 000$ pounds of fuel used during takeoff
The rocket contains about 2.2 million pounds of fuel.
 $2\ 200\ 000 \div 330\ 000 = 6.6$
This shows that about a 6th of the fuel in the space shuttle is used during takeoff.

Very much time and money had been spent on this ship, including the fuel, food and satellite source/radar. Some subsystems on the ship were power, telecoms and propulsion. Our mission for this trip is to briefly explore planets and moons outside of Earth's orbit. To gather information about these celestial object's. We were well prepared and ready. It is time to start the journey.

Maths 8

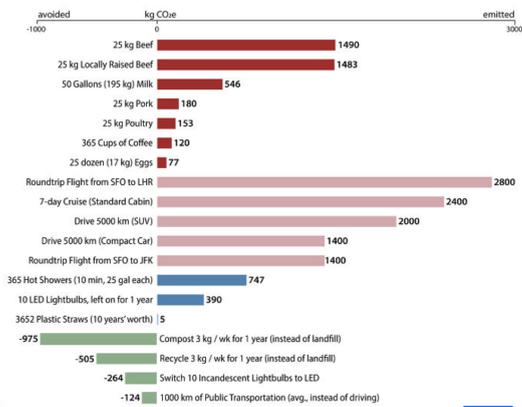
How do we make sense of big and small numbers?

Students have just finished a unit on exponents and scientific notation. In this unit we learn how to work with algebraic expressions with exponents that are both positive and negative. We use this skill to perform calculations with numbers in scientific notation. This allows students to perform calculations with very big and small numbers that they encounter in the real world. We also learn to approximate these calculations so that we can quickly and easily verify calculations to see if answers are reasonable. This is especially important when working with numbers in scientific notation because these numbers are often unrelatable. Below are some questions that students would answer by the end of the unit.



Your parents bought $\$1.5 \times 10^5$ worth of Apple shares and \$32,000 worth of bitcoin one year ago. How many times larger is their total investment today than it was a year ago?

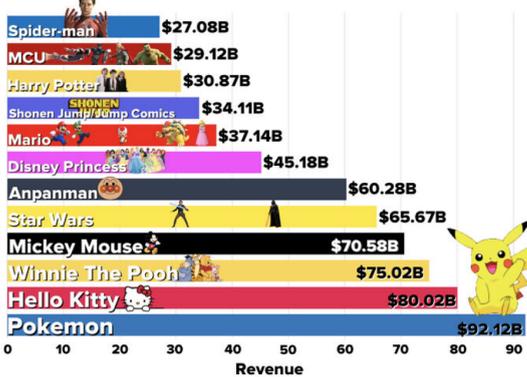
Comparing Carbon Emissions



There are 51,369,139 people in South Korea. If each person flies round trip SFO (San Francisco airport) to LHR (London Airport), then how much do we need to recycle per week for a year to offset this carbon footprint?

The Highest-Grossing Media Franchises of All Time

(by total revenue in U.S. dollars)

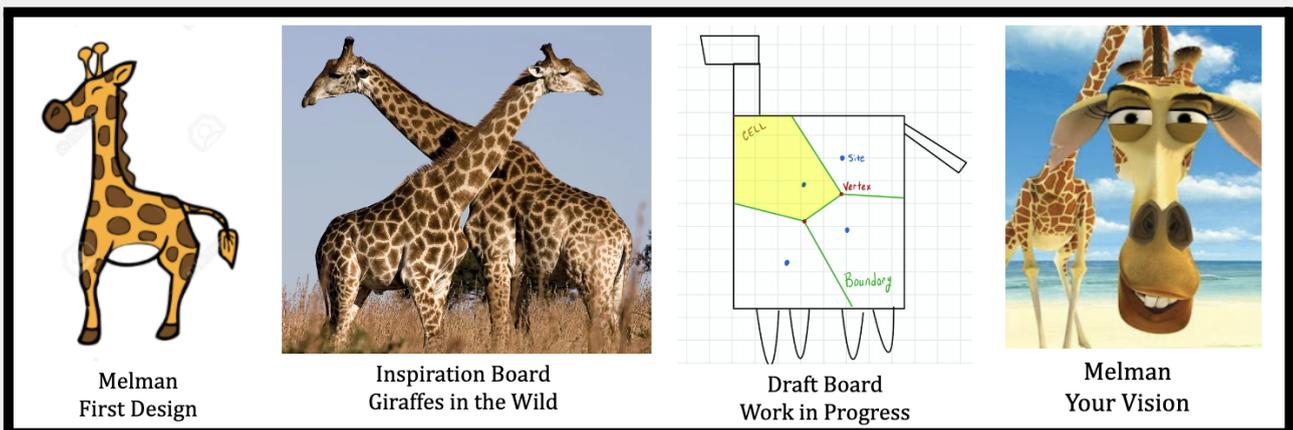


Given that Harry Potter came out 20 years ago and that Star Wars was created 44 years ago, which one of the two Franchises has the highest yearly revenue (yearly earnings)? How many times bigger is this yearly revenue than the yearly revenue of BTS of \$50 million!

Maths 9

How does the desire to push boundaries inspire innovative mathematics?

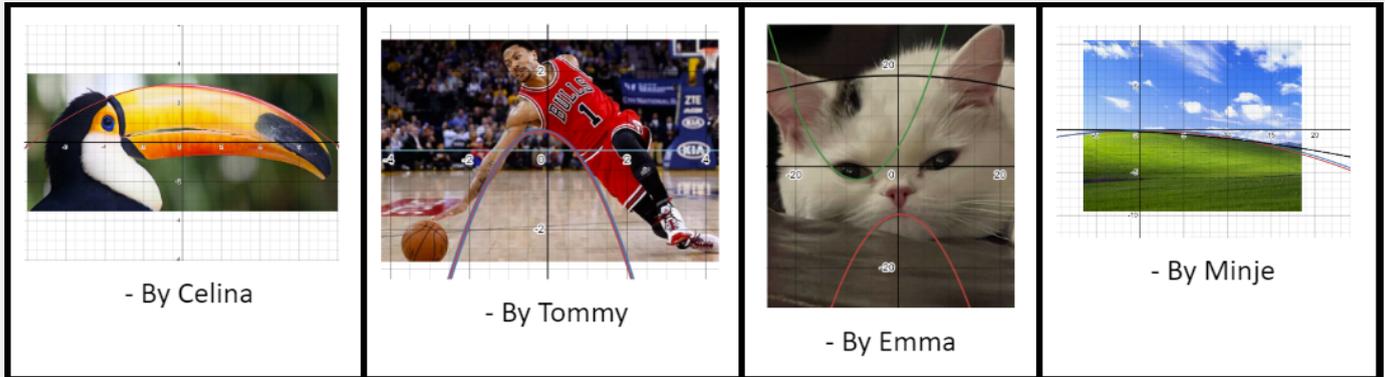
Students have just finished a unit on coordinate geometry which actually has many innovative applications. For their summative task, students learned how to use coordinate geometry to create Voronoi Diagrams. These diagrams (shown in the draft board below) are used in many mode real world applications. For example, they can be used to decide where planes should land in case of an emergency, and which weather station your phone will source to get your current weather forecast. The shapes can also be found in nature. We see them in giraffe patterns, bubble patterns and in the way mud dries in the sun. Pixar uses these diagrams when programming animations like 'Melman' in the movie Madagascar. For their summative task in this unit, students created a Voronoi Diagram like those used by Pixar to model giraffe skin.



Maths 10

How reliable are models in making predictions about the real world?

This unit began with an exploration into the shape of a parabola. The parabola is a shape that we often see in the real world, most infamously we see it in the path of a projectile (or a ball being thrown in the air).



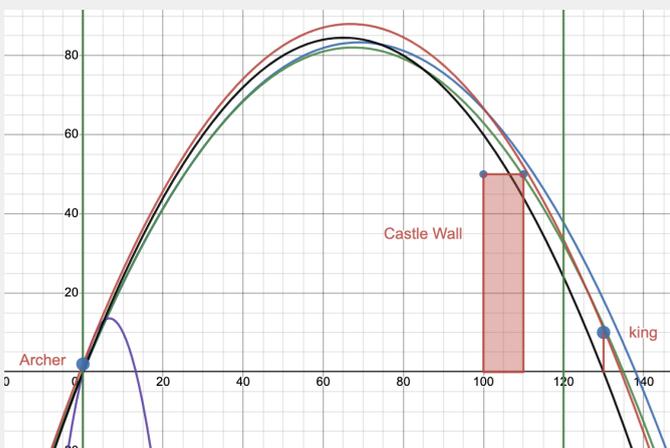
- By Celina

- By Tommy

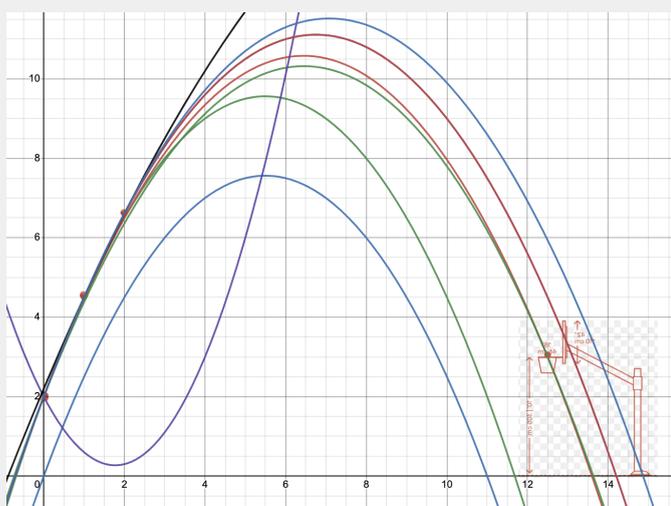
- By Emma

- By Minje

Students learned to 'model' parabolas, meaning they learned to write an equation for a curve given some information about the curve. Below are two examples of models that were created during the unit.



In this task students modelled the path of an arrow aimed at the King of Nottingham. The task was to create a model that would pass over the castle wall and hit the King. The curves above show the models that were created by students in class. As you can see, most students were able to hit the king. But, when considering reasonableness we noticed that this shot travels a long distance and goes very high in the air. It may not be reasonable for an archer to have the power to create such a shot. And, even if they do, the arrow may be strongly affected by environmental factors.

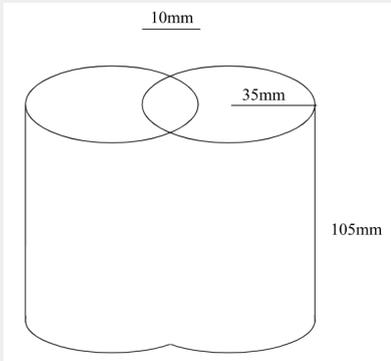


In this task students modelled the path of a basketball given a few snapshots of the ball in the air along its trajectory. As you can see, several students found that the basketball would indeed make it into the basket, while several other students found that it would NOT make it into the basket. The cause for this discrepancy is in the accuracy of the data collection process. If students were slightly off in their estimates of the coordinates of the basketball they found vastly different models. In this example we see that accurate data collection is required for accurate models and predictions.

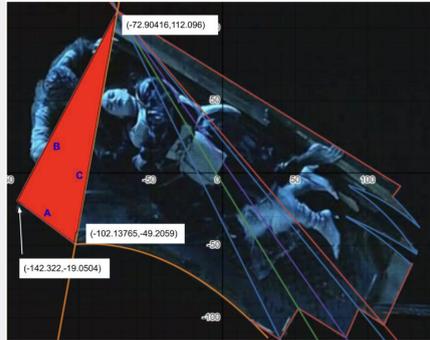
Maths in the Diploma Program

How can we mathematically explore a topic of our choice?

Grade 12 culminates with a mathematical exploration. Students pursue a personal area of interest using the mathematics they have learned. This task allows students to more genuinely engage with the material and develop much deeper conceptual understanding. Topics vary widely and it is always fascinating to see what areas of maths they are inspired to explore. The first drafts are due in a week so most of the explorations are almost fully developed. Below are a few samples of topics students are exploring.



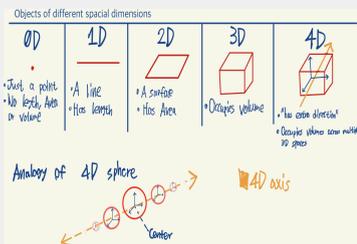
Joe is redesigning a Pringles can to minimise materials and to make it easier to get the pringles out .



Daphne is trying to determine whether or not the door in the Titanic was strong enough to hold both Rose and Jack to see if it was necessary for him to die.



Jared is using his understanding of functions to recreate the anime character Naoka Ueno as accurately as possible.



Peter is analysing universes with different numbers of spatial dimensions and how it impacts trajectories and orbits of a point mass.



Jen You is exploring eggs and how their volume and surface area can inform our decisions when cooking and disposing of the shell.



Chris is looking for areas of improvement when running by comparing the data of a race his good friend and himself did to find why his friend has better times overall.

Each week we feature an ISB Teacher in our newsletter.

This week we interviewed **Megan Zink**

Qualification and certifications:

I have a Bachelor of Arts in Elementary Education with Early Childhood and Special Education endorsements. I also have a minor in music. I received my Master's in Curriculum and Instruction in 2021 with a maths instruction focus.

What is your role at ISB?

I am the Grade 5 teacher at ISB.

Our community really is an international community! Where would you say you're from and where else have you lived?

I am from sunny Santa Barbara, California in the United States! I grew up by the beach and absolutely love that I get to live by the beach again in Busan. During university, I studied abroad in Namibia, Africa for six months where I realised I wanted to become an international teacher. Before moving to Korea, I lived in Guatemala for five years.

What inspired you to become a teacher?

I have wanted to be a teacher since I was in 6th grade. I come from a family of teachers and loved seeing the impact they had on their students and education. Helping others succeed and grow is very important to me.

What is your educational philosophy?

Education is all about relationships, respect, and risk. In order to truly learn something, students need to feel respected and cared for AND they need to be able to get out of their comfort zone.

What made you choose ISB?

I loved the feeling I got when I interviewed and talked to the other teachers here. Everyone is very welcoming and friendly.

What is the best part of your job?

I love learning alongside my kids and seeing the lightbulb go off when they learn something new.

What are your hobbies and interests?

I love to sing and go rock climbing. I also love to travel!

What is your favourite quote?

"I don't know where I belong. Everywhere and nowhere feels like home. All these changing places keep on changing me."

What is the impact you'd like to have on the world?

I want to be able to make small changes in the world that, when put together with everyone else, can create a great impact.





Chinese Special Menu

Wednesday, 16th Nov. 2022

Cold

- Stir-fried noodle with leek & vegetables
- 3 kinds of cold dishes - Ham Hocks, Cold Jellyfish salad, Vegetables
- Chinese pickles
- Chinese breads
- 4 kinds of fresh salad
- 2 kinds of marinated salad

Hot

- Fried chicken with garlic sauce
- Pork meatball with vegetables
- Dim sum
- Shrimp fried rice

Dessert

- Cinnamon punch
- Seasonal fruits
- Sesame ball



Back by popular demand, Chef Kim Kill Hee will be selling turkeys to enjoy. The turkeys can be cooked at the ISB cafeteria or at home in your oven. The turkeys will be ready for you to heat up and enjoy.

The turkeys will be available from October 1st, 2022 until January 31st, 2023. Chef Kim will work with you to arrange a pickup time and be available at nearly any time. Please order at least two days in advance. 5Kg Turkeys serve 6-7 people and 7Kg Turkeys serve 8-10 people. Great for dinner parties with friends, church dinners, Thanksgiving, and Christmas.



Chef Kim has over thirty-eight years experience as an executive chef at hotels like the Marriott, Hyatt, Grand Hyatt, and Chosun.



Menu Options

- A. 110,000 KRW - Uncooked Turkey (5Kg) with Cranberry Sauce
- B. 130,000 KRW - Uncooked Turkey (7Kg) with Cranberry Sauce
- C. 170,000 KRW - Cooked Turkey (5Kg) with stuffing, giblet sauce, and cranberry sauce (Most Popular)
- D. 185,000 KRW - Cooked Turkey (7Kg) with stuffing, giblet sauce, and cranberry sauce

Add Ons:

- A. 15,000 KRW for Delivery anywhere in Korea
- B. 15,000 KRW for 500g of Mashed Potatoes from Scratch
- C. 15,000 KRW for 500g of Steamed Brussel Sprouts
- D. 15,000 KRW for 500g of Steamed Broccoli
- E. 15,000 KRW for 500g of Steamed Carrots
- F. 15,000 KRW for 500g of Extra Stuffing

Turkeys are sourced from either the USA, Canada or Australia.

How to Order: Contact Chef Kim with your order and date (at least two days in advance)

Email: Khkim6543@hanmail.net By phone: 010-2583-6545

Testimonials

"This is the best turkey I've had in my life. I'm going to order two turkeys this year." - Mrs. Natalie S.

"This is the best turkey I've had in Korea." - Mr. Paul K.

Save the date

Wednesday 30th November, 2022
9:00am

Parent workshop looking at the ISB
Early Years philosophy and learning
in the Early Years.

Volunteer Opportunities from the PTA

- High School Volleyball Tournament Concessions: Thursday, 17th November
- Early Years Stage Decoration: 25th November
- Food/Drink Donations for the Dragon's Den: 2nd December

If you would be interested in volunteering for any of these events, please email pta@isbusan.org.

Important Links:

- [ISB PTA Volunteer Kakao Chat](#)
- [PTA Facebook Page](#)



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