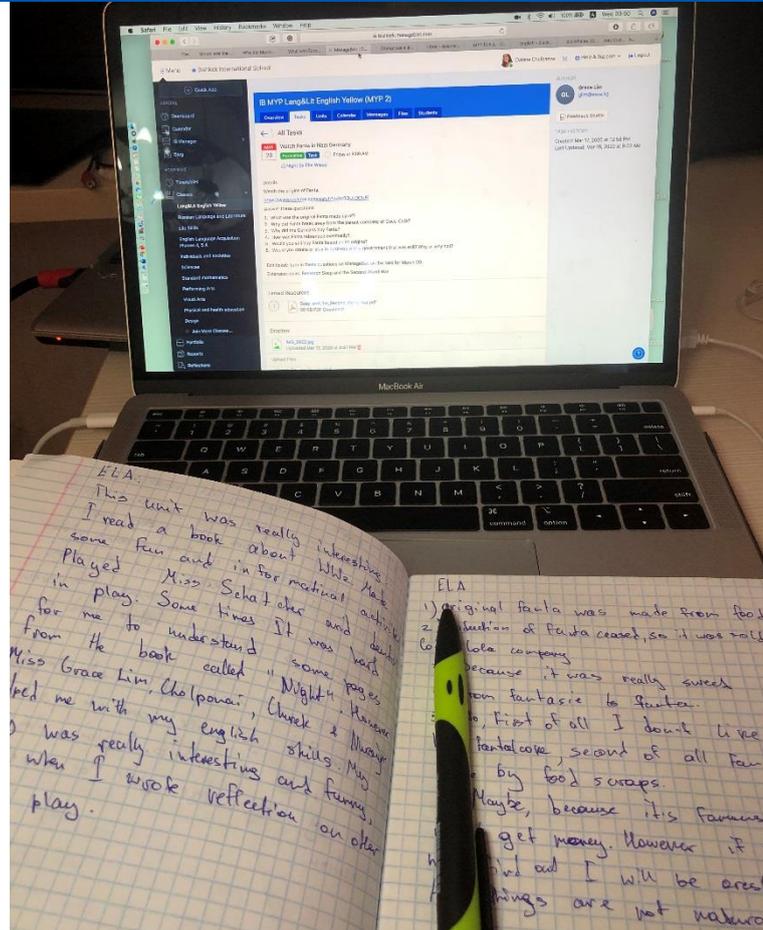




MYP EXPERIENCE OF DISTANCE LEARNING

Unfortunately, the Coronavirus is spreading very rapidly worldwide and on Wednesday 18th March, the first three cases were reported in Kyrgyzstan. Our school switched from our normal every-day in-class learning to online learning. This method protects the students and teachers by studying and teaching through Managebac and other platforms (e.g. Matific, Getepic, Class Dojo), to keep people separated in case of the infection spreading to our school and our families. Online learning is a method that is very new to students, parents and teachers, but I would say that we handled it very well.

In my MYP2 class, students were able to complete homework assignments on time, with the help of a well organized schedule and reliable teachers. Together, we got through our first week of online learning very successfully, and definitely gained new skills and experiences as distant learners. The teachers also did a great job, always keeping in touch with students and



consistently trying their best to make our learning their top priority, which made the transition to online learning much easier for students.

There was a lot of homework for us, but we all appreciated the flexibility of our teachers, who gave us a full 24 hours to finish our daily assignments. Even though some parts were very challenging, we all remained in regular contact with google chat, where we could help each other out and complain about life in self-quarantine.

Students would like to thank all of our teachers for their hard work and for making things so organized in a new and difficult situation. And good job to all students who got through the week and enjoyed it! And finally, we would like to thank parents of BIS for becoming home teachers, being cooks, and cleaners, while still trying to do their own jobs.

Delilah, MYP 2 Student



THE ADVENTURE BEGINS #TAIGANSATHOME

For those who are sometimes bored at school, this week is the start of a great new adventure with a lot of new challenges to overcome, new valleys to explore, and new peaks to conquer. I am overwhelmed with the community response from programme leaders, teachers, students and parents in making this adventure engaging, fun and educational. Many paths have been explored, some entangled bushes and rock climbs are proving difficult, and some peaks are still ahead of us. One thing I know; we will succeed together!



All schools in the country are scheduled to reopen on Wednesday 8th April, though as the response to coronavirus changes by the hour, we do not really know when we can open again. We have to plan as if this could last for a month or much longer, so please make sure that you keep up with the programme and that you are not found still relaxing by the first stream when the world is ahead of you.

David Grant, Head of School

REMOTE LEARNING PLAN UPDATES

It has been a pleasure to see how resilient the BIS community have been during the recent changes to schooling. I'd like to thank all students, parents and staff members for their efforts during this time as well as their honest and constructive feedback. The BIS team aims to be as open and transparent as we possibly can be with the school community. We will be working on a feedback-reflection-trial-improvement structure whereby the Pedagogical Leadership Team will meet virtually toward the end of each week of Remote Learning to review feedback and discuss possible changes that need to be made. These adjustments will be implemented in the following week to ensure continued development of the remote learning opportunities and experiences that we offer.

Our first meeting of this kind was held today (Friday 20th March). The decisions from this meeting will soon be communicated with teachers. We will share updates with the student and parent community no later than Sunday 29th March. Key areas that were discussed and where you should expect to see positive progress include:

- Opportunities for face to face interaction
- Consideration of workload
- Ensuring academic and holistic support of students in exam-taking classes (i.e. IGCSE 2 and DP2)

BIS remains committed to a culture of constant improvement in all aspects of learning; excellent education is still very much at the heart of what we do. The power of community is a strong tool and by continuing to work together I have no doubt that our remote learning experiences will grow from strength to strength.

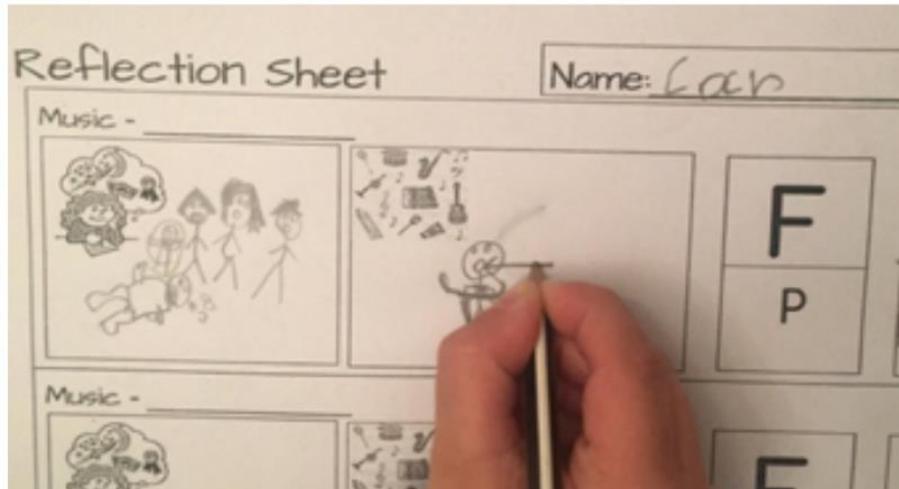
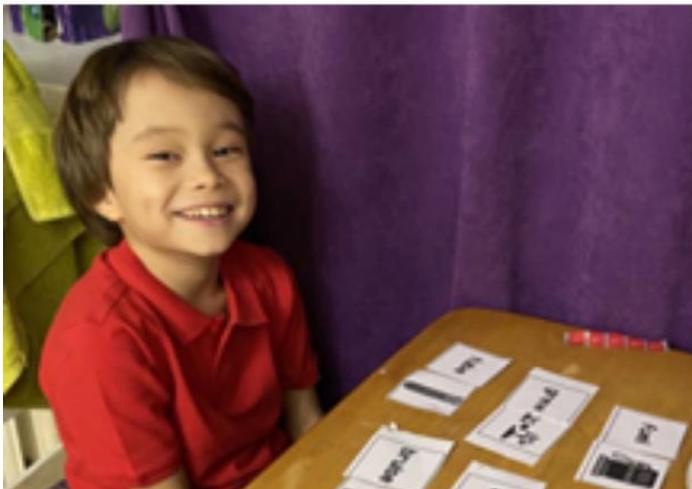
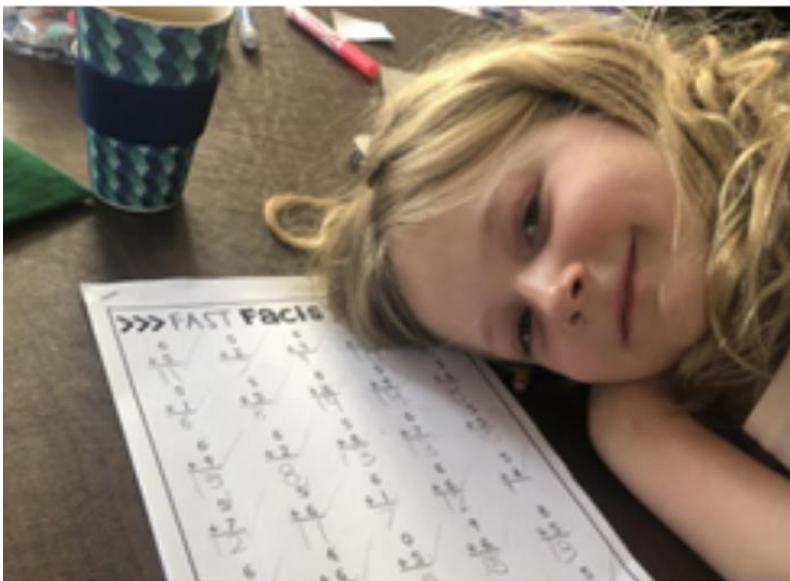
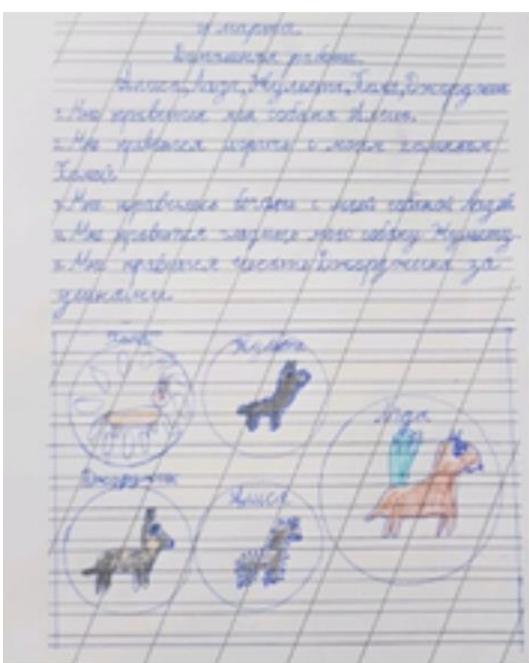
Krishna Gandhi, Director of Studies



PRIMARY SCHOOL TAIGANS AT HOME!

What a week it has been! Despite how surreal the situation is and how challenging it can be to transform from a hands-on, inquiry-based and collaborative programme to remote learning, the entire Primary community has come together to ensure our students can continue to access academic, creative and physical learning opportunities.

Here are just a few highlights!



We are still running Galaxy Go Getters this week as it has been clear to see just how much effort our students have been putting in to provide home learning! We are so proud to announce our following winners.

Primary 1: Isabel and Humay have participated in all of their activities and in some cases they have even started to work on subjects ahead of time. Well Done, Isabel and Humay!

Primary 2A: Erik M has been very principled and reflective this week by always going back and fixing any mistakes he's made and answering any further questions I've presented him with. Well done, Erik!

Primary 2S: Altai has been working really hard from home despite some physical challenges. He is being a thinker by overcoming his obstacles! Well done, Altai!

Primary 3: Neslihan has shown a principled attitude during her remote learning classes. She has given her all to every activity which isn't always easy at home. Well done!

Primary 4: Laia has proven that she is a thinker this week by applying her skills and knowledge to tackle her tasks and activities! Well done, Laia!

Primary 5: Zeinep has been positive and open-minded through the changes and challenges of learning remotely. She was the first in the class to excitedly work on the assignments and be proactive in her learning. I was very impressed with her action this week. She has been kind and polite in her exchanges in Hangouts. Well done, Zeinep!

Primary 6A: Arina T. has done outstanding work, on her summative assessment, but has also taken great risks, and proven herself a very effective communicator, by working diligently online to help make the inquiry better for all students in our digital classroom! Well done, Arina!

Primary 6S: Adilet should get a Galaxy Go Getter! He's been working so diligently since Tuesday. He is always cracking jokes and keeping things light-hearted. He is being a good communicator with me and others in the class too. Well done, Adilet!

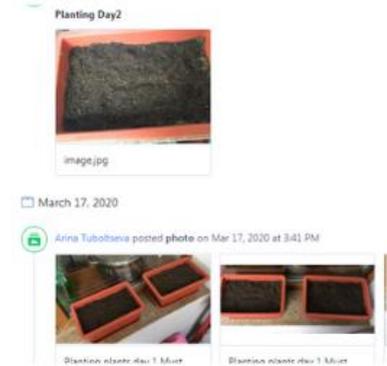
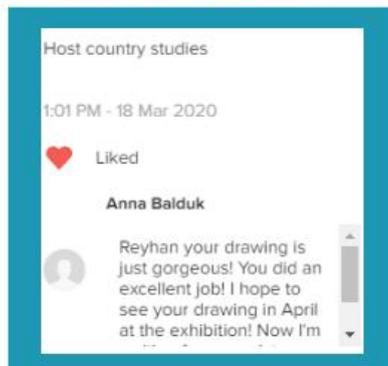
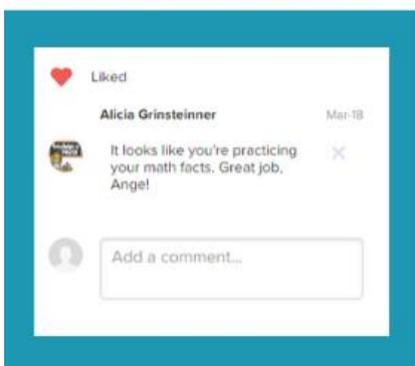
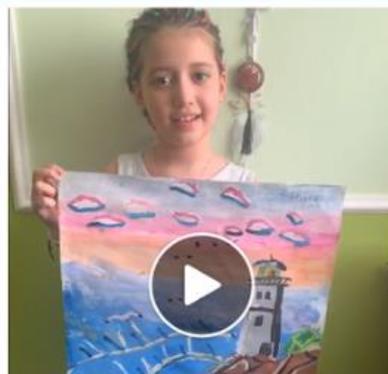
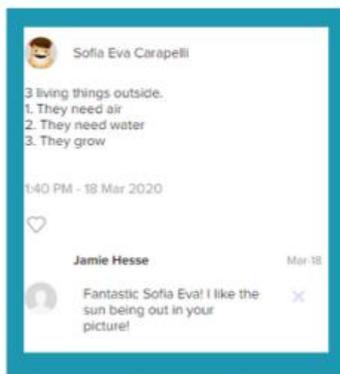
A huge congratulations to the above students! You will be able to pick up your certificate on our return to school!

Wishing you all a wonderful Spring Break!

Ms. Krisha, PYP Coordinator, Director of Studies

A SPECIAL SHOUT OUT TO ALL THE TEACHERS PROVIDING TIMELY FEEDBACK AND ENCOURAGEMENT ON EVIDENCE BEING UPLOADED! THIS IS FANTASTIC TO SEE!

PRIMARY HOMEROOM AND CO-TEACHERS HAVE BEEN REMOTE TEACHING SUPERSTARS ENSURING PYP UNIT OF INQUIRIES ARE STILL ENGAGING AND INTERACTIVE!



IGCSE REMOTE LEARNING CHALLENGE

A massive thank you to both parents and students who have undertaken this remote learning challenge very well. Our teachers have done a fantastic job in creating lessons that are more active learning while still being appropriate for each class and I am pleased to have seen a ton of fantastic submissions from our IGCSE students. Please see examples of student work done through remote learning.

Jacques Prinsloo, Assistant Head of School

growth - permanent increase in size & dry mass by an increase in cell No or cell size

nutrition - taking in of materials for energy, growth & development

movement - an action by an organism or part of an organism causing a change of position or place

sensitivity - ability to detect / sense stimuli in the internal or external environment & to make responses

excretion - removal from organisms of the waste products of metabolism

respiration - chemical reactions in cells that break down nutrient molecules & release energy for metabolism

reproduction - processes that make more of the same kind of organism

animal cell

- vacuole** - plant cell - contains cell sap
- nucleus** - genetic info is stored
- cytoplasm** - clear jelly, many metabolic reactions take place
- cell membrane** - has cytoplasm inside, partially permeable

plant cell

- chloroplast** - found in plants. contains chlorophyll green colour pigment
- cell wall** - made of cellulose

| Plant cell | Animal cells | Type of cell | Where it's found | Function |
|--|--|--------------------------|--------------------------------|--------------------------------|
| have a cellulose cell wall outside a cell membrane | have no cell wall | root hair cells | near the ends of plant roots | absorb water & mineral salts |
| have a cell membrane | have a cell membrane | palisade mesophyll cells | epidermis of a leaf | photosynthesis |
| have cytoplasm | have cytoplasm | red blood cells | in the blood of mammals | transport oxygen |
| have a nucleus | have a nucleus | sperm and egg cells | in testes and ovaries | fuse together to form a zygote |
| often have chloroplasts containing chlorophyll | have no chloroplasts | iliated cells | lining the trachea and bronchi | move mucus upward |
| often have large vacuoles containing cell sap | have only small vacuoles | | | |
| often have starch grains | never have starch grains, sometimes have glycogen granules | | | |
| are often regular in shape | are often irregular in shape | | | |

B1. Cells + Characteristics of living things
Iman

Alexia Anikina

Transport in plants

Xylem

- made of hollow cells
- from roots to stem & leaves
- WATER TRANSPORT

Phloem

- TRANSPORT of sucrose and amino acids
- from leaves to roots & flowers

section of a root

section of a stem

Water uptake → root hairs

- large surface area for more absorption

water passage

root hairs → epidermis → root hair → cortex of a root → xylem

Transpiration - loss of water vapor through evaporation from mesophyll, diffuses through stomata

Cohesion - water molecules attract and stick together (in the xylem)

Conditions that affect transpiration

- temperature → high = quicker evaporation, low = slower evaporation
- humidity → high = slower evaporation, low = quicker evaporation

Alexia Anikina

Gas exchange; respiration

Trachea - windpipe connecting mouth and nose (support → epiglottis)

Bronchi - two branches of trachea

Alveoli - tiny air sacs (gas exchange happens there)

| | inspired | expired | reason |
|-----------------|----------|-------------|---------------------------------|
| Oxygen | 21% | 16% | taken in by the cells |
| CO ₂ | 0.04% | 4% | diffuses out |
| Water content | variable | always high | gas exchange surfaces are moist |

↑ exercise ↑ breathing rate

anaerobic respiration (muscles)

glucose → lactic acid + energy

aerobic respiration (lungs)

glucose + oxygen → CO₂ + H₂O

less energy released then more energy ⚡

- Ciliated cells** → secrete mucus → traps bacteria / dust
- Cilia** → sweep mucus up the throat → mucus swallowed

yeast used in bakery:

- enzymes break down starch
- CO₂ bubbles get trapped
- bubbles cause dough to rise
- alcohols and yeast are killed while baking → high temp.

Nicotine is addictive

increased risk of COPD, lung cancer, heart disease

carbon monoxide reducing oxygen carrying capacity

tar causes lung cancer

lung surface damage

Glucose C₆H₁₂O₆

Fats = Lipids

- insoluble in water
- fats that are liquid at room temp. = oils
- glycerol + fatty acids

Function: used in a cell to release energy

Testing for fats & oils

1) chop up food & shake w/ ethanol

2) pour ethanol in to water

3) fat is present → emulsion mixture breaks into tiny droplets

↳ looks white, opaque, like milk

Testing:

Benedict's test → adding to food and heating it

no reducing sugar → blue

has reducing sugar → red/orange

Test for starch → adding iodine

starch present → blue/black

Functions:

soluble → haemoglobin, red pigment in blood

insoluble → keratin, hair and fingernails

used to provide energy

Testing:

Born test

- mix the food in water
- add dilute copper sulfate solution
- gently add dilute potassium hydroxide solution

no - protein is present

yes - protein is present

small protein molecule

amino acid

↳ 20 different kinds

that function as biological catalysts

rate of a chemical reaction is changed by the reaction

How an enzyme works

enzyme changes the substrate into products

substrate must be a perfect fit

temperature

enzymes are denatured by high temperatures

human enzymes: 37°C

plant enzymes: 27°C-30°C

enzymes from bacteria from hot springs: 75°C

pH Enzyme activity

rate of reaction

pepsin - protease in stomach

most enzymes

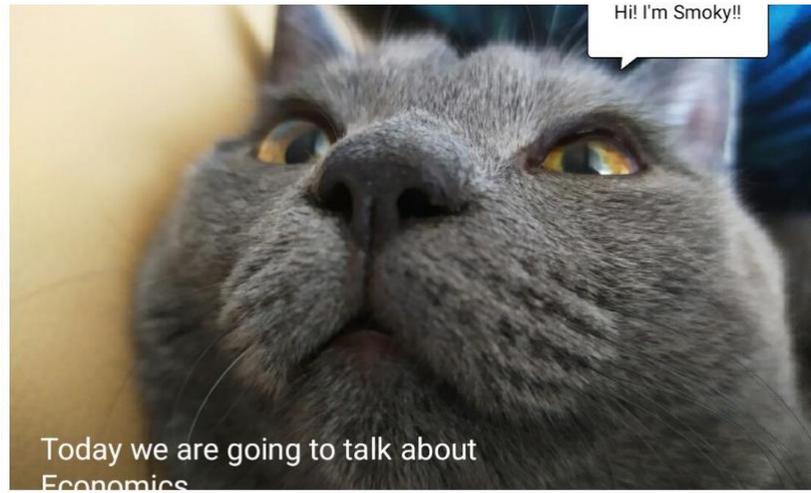
If pH becomes very acidic they denature

Properties of enzymes

- all enzymes are proteins
- enzymes are made inactive by high temperatures
- enzymes work best at particular temperature
- enzymes work best at a particular pH
- enzymes are catalysts
- enzymes are specific

B3: Biological molecules 21-31

IGCSE REMOTE LEARNING CHALLENGE



The products being compared



A coke bottle bought from the store



17/03/20 Exit ticket
 expensive because of amount of electricity required
 action takes place where there is a cheap
 source of electricity e.g. hydroelectric power
 which lowers the temperature from over 2000°C
 to the melting point of aluminium oxide, to a
 20°C. This leads to a large saving in energy.
 This also improves the electrical conductivity of
 the electrolyte.
 carbon anodes burn away in the cell and
 have to be replaced periodically



① ① 小英上午九点在在家做作业。
 ② 小英中午十二点做午饭
 ③ 午饭以后,小英和弟弟一起去打网球。
 ④ 每个星期天晚上,小英和弟弟去打网球。
 ② 每个星期日上午九点,我在家做作业。
 我做作业的时候,妈妈看书和看报纸。
 中午十二点我和妈妈去吃午饭。午饭以后,我和
 弟弟一起去打网球。晚上,我有时去朋友的
 生日派对,有时候在家听音乐。十点半以前,我睡觉。

Nathaniel Lee Wednesday, Mar 18, 2020 at 7:08 PM Only Visible for...

Population
 I learned about today
 Population dynamics (The reasons for population explosion, under and
 causes and factors that contribute to population size
 Death rates and birth rates in LEDCS and MEDCS
 Internal and external migration
 Reasons for migration and impacts
 Population structure
 Population density and distribution
 Characteristics of sparse and dense population

...without doing anything... Was boredom unknown to them?
 This is indeed a question raised by a human, a busy ape. Far from fleeing monotony, animals crave it, and what they most dread is to see it
 end. For it ends only to be replaced by fear, the cause of all activity.
 Inaction is divine; yet it is against inaction that man has rebelled. Man alone, in nature, is incapable of enduring monotony, man alone
 wants something to happen at all costs—something, anything... Thereby he shows himself unworthy of his ancestor: the need for novelty is
 the characteristic of an alienated gorilla.
 -Emil Cioran, De l'inconvénient d'être né (The Trouble With Being Born), 1973



PRIMARY2 OSTRICH FARM VISIT

Last week P2 had the opportunity to visit an ostrich farm. During our visit, the students were able to observe the different stages of development of an ostrich. The class saw adult and young ostriches, as well as an ostrich egg.

The farm also kept a variety of birds and animals. The students had a great time comparing the different birds and feeding them. The class did an great job of classifying the animals they saw as either a bird, reptile, or mammal.

The trip was short, but jam packed full of fun and new experiences. The students were so happy to have gone on such an exciting field trip.

Ms. Shelby, Primary 2S Homeroom Teacher



TOGUZ KORGPOOL ECA

Toguz Korgool is a very ancient logical game of nomads. In ancient times, the game was intended for military training, because in order to manage army, it is necessary to educate minds from early childhood, minds that could be counted and distributed.

So, from 5-6 years old leaders who could manage the army were preparing. Then the game turned into a sport. As wars became less and the excitement of the game remained, people began to play for prizes.

The game allows to develop logical thinking and memory, also develops the foresight and activity of the brain by training with mathematical calculations. But the game is built not only on counting speed, but also on tactics. In this game, the age difference does not matter. Sometimes, despite the efforts of an adult, a child can easily win. In addition, in the case of small children, exercises develop accuracy and excellence in grasping small objects.

The Toguz Korgool Federation has been operating in Kyrgyzstan since 1991, and since 2014 it has been included in the program of the World Nomad Games. And in the Czech Republic, toguz korgool tournaments are regularly held as part of the Intellectual Games Olympiad.

Ms. Saikal, Kyrgyz Language Teacher



BIS Snapshot: WND Eco Sale



SCHOLASTIC BOOK CLUB

Our March Book Club is up and running! It is open to allow you to order English language reading books, delivered from the UK to our school.

Scholastic book catalogues are available in the library and school reception.

You can place your orders from our March catalogue online <http://eu-schools.scholastic.co.uk/bishkekinternationalschool> or with our school cashier by Monday 6th April, 2020.

All orders will be delivered to our School in April.

EVERY ORDER EARNS FREE BOOKS FOR OUR SCHOOL!

We hope that you enjoy browsing through the catalogue and will find something interesting for your child!

Should you have any questions about book ordering please feel free to ask - library@bis.kg

UPCOMING EVENTS

- Monday, 23rd March – Friday, 27th March: Spring Break
- Friday, 17th April – Art Exhibition and Poetry Evening
- Saturday, 25th April – All Parents Meeting – Parents Association
- End of April: IBDP and IGCSE Exam Sessions start

More information about all these events will be sent to you later, or see <http://www.bis.kg>

KEEP IN TOUCH

If you have anything you want to discuss or any suggestions for the school, please contact your Form Teacher and they will either answer directly or pass the message on to the right person. Messages can be sent in English or Russian, or in your own language. If you do not know the correct email address for the person you want to write to, please write to info@bis.kg and our Reception will forward your email to the right person.



OUR MARCH BOOK CLUB HIGHLIGHTS!



**ORDERS ARE DUE:
APRIL 6**



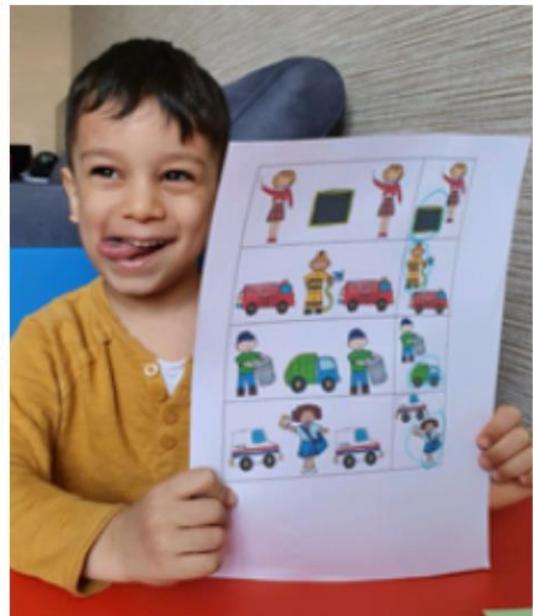
Today I want to thank all our amazing Preschool teachers for coming together and creating the beautiful activity packs for all of our preschool students. What an incredible achievement in just a day's notice and training! We have one very amazing team! I also want to thank each and every parent for participating in Class Dojo activities. Every time I get a notification it puts a smile on my face and I know the other teachers feel the exact same way. Keep up the great work and we miss all our students. Please stay safe.

Ms. Carmen, Head of Preschool



Preschool - were busy on Monday creating activity packs that went the extra mile! They continue to receive great feedback on these every day!





 David K
→ David K's portfolio

1d

