

SCIENCE WEEK

PYTHON PROGRAMMING

BIG DATA

HIS FUTURE READY

INNOVATION & ENTERPRISE CURRICULUM

SPHERO CHALLENGE

ARTIFICIAL

INTELLIGENCE

CHECK IT OUT SHOW

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EVOLV3
TALKS

INNOVATION & DIGITAL TECHNOLOGY SCHOLAR





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EDITOR'S NOTE



What an academic year it has been here at Horizon International School.

The purpose of HIS_Digital was to showcase and celebrate our digital learning achievements here at HIS to the entire community, with the theme this year being "Are You Ready Player One?"

What started off as an insight into what digital learning, technology and innovation holds; has now evolved into celebrating our successes and modeling what 21st century quality first learning and teaching looks like, with innovative experiences at the heart of everything we do.

Our students - the heart beat of our school, have risen to the challenge, broadened their horizons and given everything a go! Our generation of digital natives are thriving with the opportunities they are accessing and this is just the beginning, I can assure you.

Technology and digital learning is ever evolving. We continue to adapt, transform, shape and change the experiences we provide through digital learning here at HIS and we continue to learn.

On a personal note, I am immensely proud of what we have achieved this academic year for our students, staff, parents and community. The forthcoming releases of HIS_Digital will now incorporate much more than digital technology. It is a platform to celebrate our wider school successes across a range of curriculums.

No longer are we just focusing on emerging and developing our digital learning, technology and innovation; we now fully immerse and embed!

Are You Ready Player Two?

Mr. Petkar Head of Digital Learning, Technology & Innovation

"Dear Past, thank you for the lessons. Dear Future, 9'm ready."

"Science is a way of thinking much more than it is a body of knowledge."



CARL SAGAN

This year's Science week kick started with a competition for our fantastic staff members, who had to GUESS THE SCIENTIST based on a series of picture clues around the school.

Congratulations to Mr Clifford, Ms Makan, Ms Young, Mr Willis and Ms Lee for winning themselves a treat from the Bell café.





Things only got better throughout the week, as we had Science embedded into different parts of the curriculum, with teachers in MFL, English, Drama and Social Studies delivering collaborative lessons on sustainability.

Our crazy science teachers and crazier scientist students also went around the school invading lessons, to conduct 5 minute wonder Science experiments across the school. Yes, it is true. They did set one of the Psychology teachers on fire!

We didn't forget about our younger, keen and upcoming Scientists workshops were held for our KS2 students who learnt how to make water filters and build turbines. Safe to say, they are prepped to save our depleting resources.

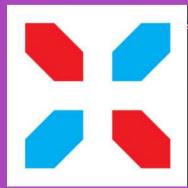


ovid constraints didn't stop the fun in the MFL classrooms!

Despite split classes, plastic screens and lack of movement, our children have demonstrated their resilience throughout and we could not be more proud of their achievements.

Have a look at some of our highlights here.

I Languages









Welcome to the World of Psychology by Ms. Young



This term we have examined a range of interesting topics including the influence of genetics on our behaviour.

In particular, the use of twin studies and how this might give us some answers in relation to the causes of behaviours such as schizophrenia and depression.

There have been numerous applications of psychological research but in particular to improve recall, for example when taking exams. Year 10 students have examined psychological theories of memory to understand how we learn and why we need to 'rehearse' the information outside of class in preparation for exams.

The introduction of 'knowledge organisers' has helped to demonstrate to students that by organising their notes in a certain way it will improve their recall of information when they need it most!

Give this memory test a go to see how good your memory is!

Why do we need sleep? Is it true that we need a minimum of 7 or 8 hours? Why do we dream? Do our dreams mean anything?

These are just a few of the questions that the Year 11 & 10 groups have explored this term. What do you think? This small clip gives a quick summary of the main theories behind dreaming.

CHECK IT OUT SHOW



Our two Student Digital Leader representatives Ethyn White and Nour Hassan took the opportunity to speak with education pioneers from Net Support and Really School on the Check It Out Show, live on YouTube.

Ethyn and Nour spoke about the range of innovative experiences that we have had this year at Horizon International School, including Innovation Week, being a Student Digital Leader and what is to come!

Both students spoke so professionally and were fantastic in representing our school.

Well done Ethyn and Nour!

PΕ





EVOLV3 TALKS



The Evolv3 Talks event on showcased the considerable talents of the HIS students taking part. A range of topics were presented. We learned about subjects as diverse as the origins of the Universe and the structure of the criminal mind!

All of the students spoke with confidence and passion. They developed speaking skills, extensive research and enthusiasm was there for all to see. We could not have been prouder of them. It takes lots of practice and courage to stand up and deliver a talk.

Well done to all. The talks were professionally compered by Romeq and Sammy. It really was a wonderful event.





PYTHON PROGRAMMING





Students in KS3 developed their knowledge and understanding with Python Programming this term. A script based programming language which is used throughout the coding industry today!

Our students were able to use conditions and functions to interact with their code; going onto creating their very own Covid-19 Clinic and Health Check program, along with a Sports Facility program.

The transformation in our students coding skills has been amazing to see!

SPHERO CHALLENGE

Students in Year 6 have been designing their very own Sphero challenge courses this term.

Students had to use their critical and design thinking skills, along with collaborative research to think of ways in which they could progressively make their courses harder.

Using block code programming within the Sphero Edu iPad application, peers had to complete the obstacle courses to enable the Sphero to move at speed, through water, ucross ramps.

It is safe to say, Year 6 had an amazing time doing this and the designs they created using their own everyday household resources were absolutely phenomenal!



HIS FUTURE READY



Here at HIS, we do not stop. We continue to grow and develop ourselves with the ever evolving technological change around us. We serve our students with the aim of enabling them to become "Future Ready".

Looking forward to the new academic year 2021-2022, we are introducing a range of advancements; both for students and staff.

Students in our Secondary School will have their own ePlanners embedded within Microsoft Teams where they access their homework diaries, live timetable and "Big Data" through the integrated Microsoft Power BI. Students can understand their own data and make informed decisions based on their learning journey.

Staff at HIS have been introduced to the new HIS Intranet. A site for all internal staff to access resources, have centralised storage areas, weekly bulletins, events calendars, policies and much more. Our student digital leaders have also created a fully integrated "Tech Help" SharePoint site for peers and teachers to access a range of videos to support with multiple devices.

Our KS1 and KS2 Computing curriculum is modified through the leadership of our Innovation Activators & Agents team. This allows our primary students to use the technological advancement on their iPads to integrate Apple Education and Computing within their cross curricular lessons seamlessly.





WALKTHRUs at HIS

Teachers of Horizon International School love to learn, develop their teaching practice and improve students' learning.

Since February, our teachers have been enhancing their teaching by engaging with some highly effective strategies from Tom Sherrington and Oliver Caviglioli's WALKTHRUS.

We are one of the first schools in Dubai to embrace this approach in which each strategy is designed using cognitive science and pedagogical research to ensure highly effective learning is the benchmark for all of our students.

Take a look at our video to see WALKTHRUs in Action at HIS!



Keep updated with Learning and Teaching at HIS:









WALKTHRUS

WALKTHRUs that we have implemented at HIS so far:

Deliberate Vocabulary Development

Explicit teaching and practising of specific vocabulary so that our students have a broad and sophisticated repertoire of words.

Say It Again Better

Refining, extending and developing verbal responses so that our students are challenged to think deeper and articulate their ideas better.

Live Modelling

Teachers demonstrating the process of achieving high quality responses so that our students understand exactly how to produce excellence.

Quizzing

Retrieving key information from previous learning through low-stake quizzes so that our students retain and build upon a solid foundation of crucial knowledge.



JUIZIZZ



Quizlet

Some of the digital platforms we have used to quiz our students...

















INNOVATION & ENTERPRISE CURRICULUM

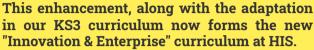
The Primary and KS3 curriculum continues to be modified and adapted to enhance the opportunities we provide for our students here at HIS.





The strands we will focus on include digital communities, robotics, artificial intelligence, computer programming, design thinking and sustainability.







We cannot wait to get started with this again across HIS in the new academic year 2021-2022. Stay tuned to watch it revolutionise; enabling our students to become #futureready



INNOVATION & DIGITAL FECHNOLOGY SCHOLA

My name is Ali Zakaria and I have recently been selected as a Digital and Innovation Scholar at Horizon International School.

I am very proud to be in this role as I believe that I can develop and enhance the school in multiple ways within the department and in many other aspects around the school.



This role means a lot to me, and I hope to fulfill expectations, bringing forth new ideas and aspects to the school through out my years as a scholar.

One of my innovative ideas is to deploy a fingerprint sensor for registration for all students at HIS.

I would also like to have a coding club for students who are interested to learn about Python, Java and C+.



ARTIFICIAL INTELLIGENCE



How many times have you carelessly thrown rubbish into a bin? whether it was a recycling bin or a generic bin, it's likely your waste was not recycled.

Pollution and the consumption of natural resources are fatally impacting our health, wildlife and future generations. This is why our goal is to create a sense of urgency about this problem and teach coming generations to recycle.



To address this problem, we have taken an innovative and technological approach and created GoGreen, the app.

GoGreen is an iOS functional prototype app that uses visual recognition to classify images of rubbish. We accomplished this by utilising machine learning, a subset of artificial intelligence; an image dataset was created to train the visual recognition model which we implemented into the app, coded using Swift.



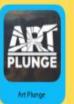
We would target the app towards schools as a learning tool to teach children how to recycle in a simple and kinesthetic way. The visual recognition model could also be implemented in various ways such as drones, boats and smart bins.











THE PERIODIC TAB





OF iOS APPS FO AR AND VR to try









































































CREATIVITY



HISTORY



LITERACY

MATHS



SCIENCE

TEACHING



)R today!

































































































