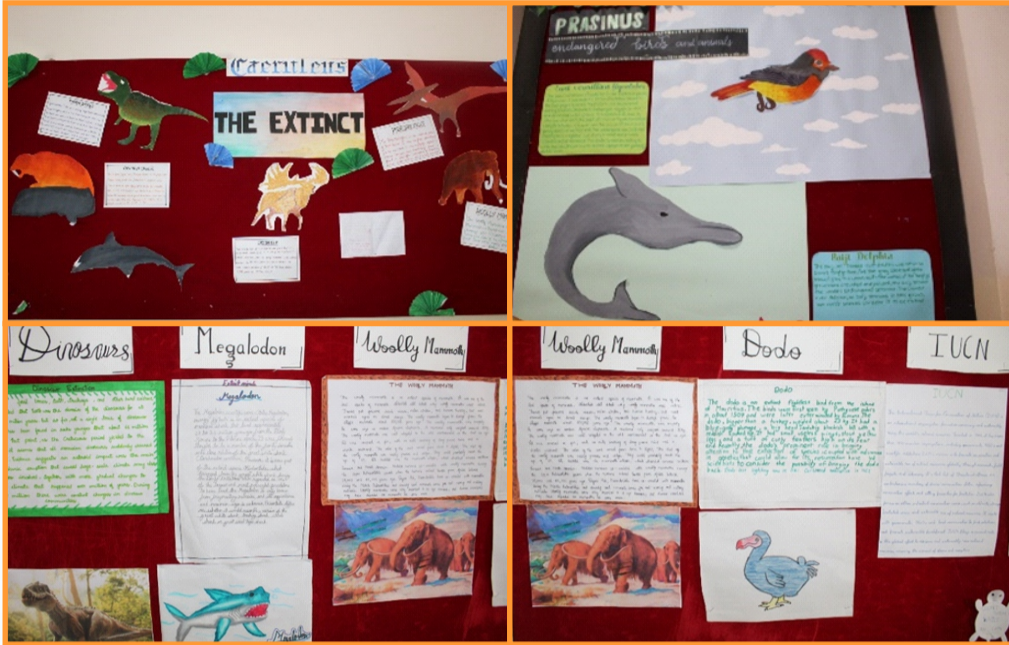


FROM THE EDITOR'S DESK

The vibrance of the offline school, a testimony of our resilient Deenites, is brought to you in this edition. Presenting the newsletter compiled by the young editors of Grade 7.

- Ms. Hemlata Pande, Principal, Gunjur Campus

**Section 1
The Evolution of Life on Earth**



We can safely say that the egg predates the chicken. The egg came first, and then it hatched a chicken. Eggs are around 340 million years old whereas the chicken is 58 thousand years old. Hope this settles the argument! Source- <https://www.science.org.au/curious>

What is evolution?

The evolution of life on Earth is a fascinating story that spans over billions of years. It is a tale of how life originated from simple, single-celled organisms and gradually evolved into the complex array of species that we see today.

Evolution is the process by which organisms change over time, and it has played a critical role in the development of life on Earth. The story of evolution begins approximately 3.8 billion years ago when the first simple life forms emerged on Earth.

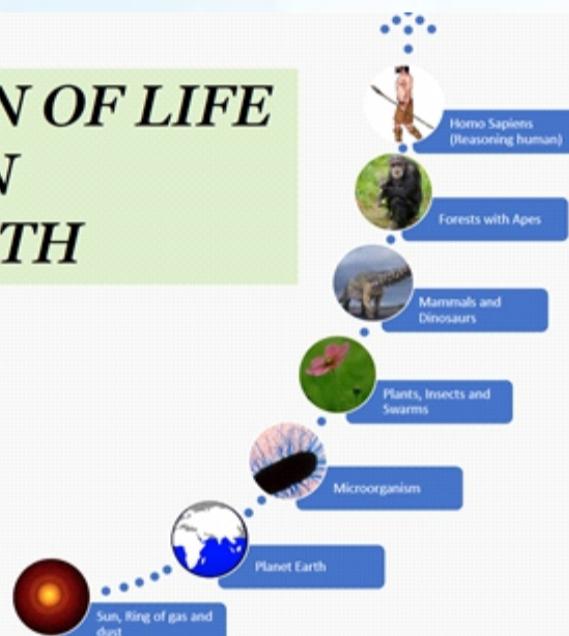
At the beginning of life on Earth, the planet was a very different place. The atmosphere contained very little oxygen, and the conditions were extremely harsh. However, over time, organisms adapted to their surroundings, evolving new features and characteristics to help them survive.

One of the most significant events in the evolution of life on Earth was the emergence of photosynthesis. Photosynthesis allowed organisms to harness the energy from the sun and convert it into a form of food, providing a significant advantage over other life forms that could not do so. This event paved the way for the development of more complex organisms, and ultimately led to the appearance of multicellular life.

Over time, life on Earth has continued to evolve, with new species appearing and old ones going extinct. However, one of the most notable events in the history of life on Earth occurred approximately 65 million years ago, when a catastrophic asteroid impact wiped out the dinosaurs and opened up new ecological niches for mammals to thrive. Thus, the evolution of life is a process that will keep on going on and is never ending.

- Devansh Bishnoi, 7E

EVOLUTION OF LIFE ON EARTH



Submitted by:
Tanush Raj
Class: IV B

What came first the chicken or the egg? - An "eggcellent" evolutionary question!



So which side are you on when it comes to this tricky question? You need a chicken to lay an egg, but chickens come from eggs, leaving us puzzled! This age-old conundrum of what came first, the chicken or the egg, can be easily answered with the help of the principles of "Evolutionary Biology".

The Egg -Eggs are found across the animal kingdom. Research suggests that millions of years ago the eggs had no fluid in them. They needed water around to hatch. The eggs have evolved since and the present-day eggs have an all-in-one life support system. The embryo can take in stored nutrients, store excess waste products, and respire (breathe) without the need of an external aquatic environment. It is believed that this egg appeared on the scene around 340 million years ago!

The Chicken -Evolutionary biology suggests that the parents of first ever chicken were some chicken-like birds, possibly the red junglefowl. There was some genetic mutation or many mutations that took place inside the eggs of these birds that resulted in the birth of a new specie, the modern-day chicken. Evidence suggests that the chicken first walked the earth some 50 thousand years ago.

Conclusion

The Tale of Evolution

Life started as a tiny creature,
Living near the ocean floor,
Who ate each other for dinner?
And joined to form creatures more.

Some fish fell in love with land,
And formed the mighty dinosaurs.
Those giant creatures roamed the land,
Feasting on the mammals of dark.

One fine day disaster struck,
Sparing only the small,
And those who flew in the sky grew beaks.

Those tiny rulers of night,
Became rodents, monkeys, and bats,
And the birds were like giants,
Who feasted on horses that were cats.

It was a nice day,
When tails of some monkeys fell off,
They stood upright and had a good laugh.

They learnt the use of tools,
And how to build a fire,
Then trekked our prehistoric family,
Out of Africa's pyre.

Our mighty ancestors,
Killed their neighbors and kin,
They removed the woolly mammoths,
Homo Neanderthals they harmed,
And took over the world.

From foot to horses,
From carriages to cars,
And search through the unknown,
This is the tale of evolution,
A knowledge new and old!

- Mrinalini Biswas, 5E

Evolution of Covid 19

Evolution is not always for the best. COVID-19 began in December 2019, with the first cases being reported in China. Since then, the virus has spread rapidly around the world. In the three years since the virus was first identified, there have been changes in the way the virus spreads, how it is managed, and how it is being treated. Governments around the world have implemented lockdowns, while researchers have developed new treatments and vaccines to fight the virus. The strains of COVID-19 are classified according to genetic differences in the virus's RNA. By October 2020, there were six major strains of COVID, including the original strain as well as strains that have been identified in Europe, the United States, and other places. Other variants have been identified, such as the B.1.1.7 variant that was first identified in the UK and has since spread to other countries. Since the start of the pandemic the different strains that were identified were:

1. SARS-CoV-2: This is the initial strain of the virus that caused the COVID-19 pandemic. It has been identified in many countries around the world. Then it evolved to:
2. B.1.1.7 lineage: This strain of the virus was first identified in the UK in late 2020 Then it evolved to:
3. B.1.351 lineage: This strain of the virus was first identified in South Africa and has since spread to many other countries. It is believed to have involved to:
4. P.1 lineage: This strain of the virus was first identified in Brazil then it evolved to the last known strain:
5. A.23.1 lineage: This strain of the virus was first identified in India in late 2021 and is believed to be the last strain discovered.

Will this virus stop evolving? Can scientists stop it in its tracks? We can only hope.

-Tanisha and Mauli, 7C

Section 2- WOW Moments in the Classroom

2.1-"Ek Din Maa K Naam"- Hindi - Grade - 4



This heart-warming activity, "Ek din maa k naam", was based on the lesson 'Ullu' in Hindi. The children understood the loving relationship between a mother and her child. They realized how their mother helps them in the smallest tasks of each day, stands by them in their joys and sorrows, comprehends their thoughts even without their speaking. The children tried everything possible to make their moms happy, which brought a smile on their mother's faces. The children also made a thank you note for their moms in class.

2.2- Letter writing- Hindi- Grade 4 and 5



This activity in Hindi was done in class IV and V. All the students participated enthusiastically. They brought inland letters from their homes, in which they wrote letters to their near and dear ones and expressed their feelings and thoughts in writing. Nowadays, in everyday life, our life is limited to email, phone and mobile; The children are far away from the pleasant experience of writing letters and through this activity, they had the pleasant experience of penning down their feelings.

2.3- Grade 6- Chemistry

The 6th grade made projects on "wind power conservation". Students were assigned to make different instruments to convert wind energy into power, with waste materials. Some students used concepts of physics to show the wind turbines convert the hair dryers' wind energy to turn on a light bulb, few others made it into a biology and chemistry intergeneration by using rain harvesting with a windmill.



The objective behind this activity was to understand that use of natural resources for energy is the need of the hour and major change from using fossil fuels like coal. In modern-day society, wind energy shows massive significance as it gets converted or evolved into electric energy, it was first used during the "Industrial Revolution" in 1887-1888 by UK and USA, and using renewable energy is way healthier for the Earth.

-Ayaana Gupta, Aahana Betal

2.4- Grade 7- Guest Lecture

On Tuesday, 7th March, grade 7 had a guest lecture on the topic 'Artificial Intelligence', by Mr. Suresh Narayan, a strategic advisor in multinational companies. A.I is nothing but any device that can interact with us and give response to our many questions. Today we are living in a world of artificial intelligence. A.I is not something new, in fact it has been referred to in our Vedas.



The first artificial neurons was developed in 1943 followed by the Turing test in 1950. The first artificial intelligence program was developed in 1955 by Allen Newell and Herbert A. In 1996 IBM released a revolutionary Chess challenge name Deep Blue. This artificial intelligence chess board defeated Gary Kasparov, the world champion. This was a milestone in A.I. People all around the world realized that devices could think like humans. We use A.I. in our daily life without realizing it. Rumba a robotic vacuum cleaner has been in use since the 2002. Smart speakers is an A.I device seen in all houses. Smart speakers prove how much devices have evolved to understand the human language. Finally, we have chat GPT the latest development in A.I. Chat GPT is a combination of A.I and natural language processing. It is programmed to keep learning and it can mimic the human behaviour and answer our questions. Artificial Intelligence has both advantages and disadvantages. If used in the right way. Chat GPT will benefit us in a thousand different ways but if we misuse it will affect our brains and learning process. Mr. Narayan concluded the session by saying that "artificial intelligence will evolve, but no matter what, the real intelligence is human intelligence. There is no substitute to the human brain." The guest lecture was not only informative, but it also encouraged us to go on and develop such platforms which were unthought of a few years back. I would like to conclude by saying that this session was very interactive and educational. It taught us students about how much technology has developed today to have interactive chats and programmes to answer one's questions. We are very thankful to Mr. Suresh Narayan and our teachers for giving us the opportunity to know about AI.

- Tanisha Bose, 7C

Section 3- Grade 6-8- Field Trip



Grade 6-8 visited the Visvesvaraya Industrial and Technological Museum for a fun-filled yet educational field trip. There, we had got a chance to witness and explore various branches of science through working models and interactive activities. As soon as we entered the museum, we saw the life-sized model of a Spinosaurus in a hall where several concepts about these extinct predators were explained. It also contained a model of the first ever aeroplane made by the Wright brothers. Secondly, we got a chance to look at multiple gears, motors, circuits and simple machines in the Physics Section where the working of everyday objects like the ball-pen and zipper were also displayed. The second floor consisted of a Fun Science Gallery where concepts about the workings of fluids, sound and perception were shown using engaging games and illusions. The Space and Electronic galleries were also some which we enjoyed extensively. Apart from these, the display of biological concepts like genetics and the food we consume also fascinated us. Last but certainly not the least, the Science for Kids gallery contained a range of sensory activities and an exhilarating mirror maze. In conclusion, this field trip to one of the most well-known museums in Bangalore was extremely interactive, engaging and educational. We came back with great memories of the visit.

-Akshara Madhusudhanan

Section 4- Inter House Western Dance Competition



The much awaited inter house Indian dance competition was held on 7th of March 2023. Participants from grades 5-8 were a part of this amazing competition and they were judged on costume, expression, choreography and song. The competition had two categories, paired dances, and group dances. The panel of judges, which included Chandrika ma'am, Annam Ma'am and Bala Sir, had a tough time deciding the winners.

The audience were held spellbound by the performances and everyone was clapping and grooving to the beats. It was an immensely enjoyable competition, and we were all thrilled to cheer for our friends.

-Ayaana Gupta

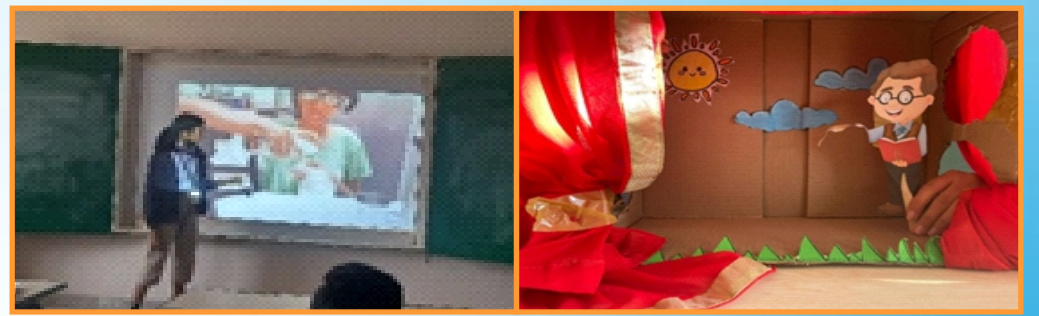
Section 5- Grade 2 Special Assembly



The grade 2 special assembly, held on 22nd February, was an amazing experience for all the students. All the students of grade 2 got together with their teachers to put up a spectacular show. The theme of the assembly was Punctuality. Students took part in various items including-Indian music, western music, Skit, Indian dance, Western Dance etc. There was a western dance on the song "can't stop the feeling". There was an interesting skit on the story of the fox and the wolf highlighting the importance of being punctual. It was followed by an outstanding Indian dance performance on the song "Balle-Balle". The show was carried forward with melodious performances of Indian and western music. The students of grade 2 told us that they were all nervous but extremely excited to perform in front of their parents. They were all scared that something would go wrong, but in the end, they put up a splendid show. The show came to a happy end, keeping the students of grade 2 looking forward to more such opportunities where the students can showcase their talents to the school.

- Mauli and Tanisha, 7C

Section 6- National Science Day-20-28th February



National Science Day week was celebrated in our school with great enthusiasm. Students from grades 1 to 8 formed groups and presented working science models and experiments to their classmates. It was an incredibly fun and informative week as every group had unique topics and some which were never heard of before. My experience at this event was a memorable one. Pradyumn, Riddh and myself made a project on the workings of a PH scale. It was a fun and interesting activity. Another activity by Eishita, Girik, and Dhruv from 7C, a working air cooler using an electric circuit and ice, was a fascinating project as I thought a simple air cooler was not possible with household items. It was a breathtaking experience. I urge every child to benefit from the event.

-Aarav Jain

NSD – The Presenter's Perspective



On 28th February this year, the students of Deens Academy, Gunjur and Whitefield celebrated National Science Day. An exhibition was organized at the Whitefield campus, which presented the research and learnings of the students in the Science Club of grades 7-9. There were many live demonstrations, posters, and models on display. The classrooms were converted to "Science Booths" with each booth had its own theme like Astronomy, Genetics, agriculture, Bio-Medical sciences, pharmaceuticals, radioactivity etc. Students had an enriching experience with all presentations and explanations of science and many of its principles & properties.

I was lucky enough to be selected as one of the presenters from grade 7 for biology. Our topic was seed dispersal. The exciting day started from 8:30 in the morning and those who were to present, boarded their busses. I, along with my teammates, Saanvi and Sreshta, boarded the bus and we were on our way. We reached after the assembly had begun and just in time for the ribbon cutting. We immediately went to our stall and set up our project which included a 3D model and posters which was on the topic of seed dispersal. When the event started, inquisitive visitors started going around the exhibition. Whenever any parent, teacher or student came up to us, we explained the concept using our poster and model. We even tried to answer any question that the visitors asked. We had a lot of fun while getting to know new people and meeting old friends. It was a very encouraging and enriching experience. Finally, it was time to pack up. We got back on the bus and reached right before the end of the last period. In my perspective, I had a great time, and it was a thrilling experience for a thrilling subject like science!

-Nipun Gaur, 7B

My Experience in NSD



"The important thing is to never stop questioning." - Albert Einstein

National Science Day is celebrated in India on 28th February, each year to mark the discovery of the "Raman Effect" by Indian physicist, Sir C. V. Raman. To celebrate this event, Deens Academy, held an open day at the main campus where a few projects from each campus were selected to present there and other students of all campuses that weren't presenting were taken to watch. For me, as a spectator, the way it was all organised was just fabulous. It was just amazing seeing all these new science topics emerging and how they are used in our daily life. Some projects that I felt were interesting and left a mark in my mind were the **Seed Dispersal project** that was done by some of my classmates, the **diet of a Soldier in the 2nd World War**, the **Importance of Fingerprints etc.** The experience was amazing! You could learn a lot by only just seeing the charts that were put up everywhere. On top of that, the presentations, I felt were very explaining and engaging so it didn't feel boring at all. I feel that this was a great initiative taken up by our school to expose us to various concepts of science.

- Reyansh Bansal, 7B



Students of LKG made their mums proud and displayed their love and affection for mommy dearest in “Mom and me” activity.

Students of UKG made a model of the solar system to learn about our magnificent and vast universe. They relaxed with a nice tall glass of lemonade after this because, when life gives us lemons, we make lemonade!



Its never too late to learn chemistry! Our tiny tots learnt all about soluble and insoluble substances in class.

White day celebrated with enthusiasm -making raita! What's whiter than yogurt?



Hands and Minds that Worked Together



Nipun Gaur, Reyansh Bansal, Aarav Jain, Mauli Agrawal, Tanisha Bose, Prateesh Reddy(Photography credits), Aahana Betal, Ayaana Gupta
Mentor teacher- Chandan Shenoy