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Cherries

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CHERRIES - ISSUE 219



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#1

Factor Tree Activity

Ms. Abinaya. K (Grade 4 Math Educator)



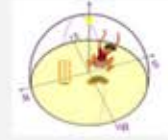
Factor trees are useful to anyone trying to break down numbers into their prime factors. Factor trees are a way of expressing the factors of a number, specifically the prime factorization of a number. It is a method of factorizing a number in which the factors are split and written in such a way that it looks like the branches of a tree. Learners made their factor tree conceptually and colourfully; it was a fun and knowledge filled activity for the learners.



#2

ZERO SHADOW DAY

Ms.Saranya. J (Higher Secondary Physics Educator)



“I thought the most beautiful thing in the world must be shadow.”

- Sylvia Plath, *The Bell Jar*

The lack of shadow is beautiful too and it happens twice a year, for places between +23.5 and -23.5 degrees latitude. The Sun is almost never exactly overhead at noon, but usually transits a bit lower in altitude, a bit to the north or a bit to the south. We have all studied in school that the Earth's rotation axis is inclined at 23.5 degrees to the plane of its revolution around the Sun, which is why we have seasons. This also means that the Sun, at its highest point of the day, will move from 23.5 degrees south of the celestial equator to 23.5 degrees north of the equator (Uttarayan), and back again (Dakshinayan), in a year. Of course, the northern most and southern most points are the two solstices and the crossing of the Sun across the equator is the two equinoxes. For people living between +23.5 and -23.5 degrees latitude, the Sun's declination will be equal to their latitude twice - once during Uttarayan and once during Dakshinayan. On these two days, the Sun will be exactly overhead at noon and will not cast a shadow of an object on the ground. This Zero Shadow Day will clearly be different for different places on Earth. Children from grade 3 – grade 12 gathered in the football ground to witness the Zero Shadow Day on 18.08.2023 at 12.26 p.m. Students were excited to notice that their shadows went smaller and smaller as time passed. They were exhilarated and questioned about the phenomenon taking place. Their doubts and questions were addressed.





#3

HABITAT AROUND US

Ms. Saradha Gopi & Ms. Suhashini (Grade 1 Science Educators)

“The most important thing is to preserve the world we live in.”

A Habitat is the entire neighborhood where an animal gets food, water and shelter it needs to survive, simply a **HOME**.

The bird's habitat in our school campus, brought the learners closer to the nature. They were happy to see a real nest so close and, on a shrub, it looked so fresh. Native trees and shrubs provide good nesting areas for many species, from those that nest in holes to those that create cup-shaped nests in the crotches of branches. Finding a tiny habitat of ants and termites under a small stone and in the roots of a tree made them understand, our home is not the only home on earth. Our mother nature provides its natural resources as a home to other living beings.



#4

TEACHER'S VOICE

Ms. Menaka Balu (English Educator)



ADAPTING TO THE CHALLENGE

In the face of these challenges, Chennai is taking steps to fight the effects of global warming and adapt to the changing climate. The city is exploring the possibility of sustainable urban living strategies, including the creation of green spaces, the installation of reflective roofs, and the development of public transportation networks to reduce reliance on private vehicles. Additionally, efforts are being made to raise awareness among residents about energy conservation and waste reduction and segregation.

As Chennai grapples with the repercussions of global warming and climate change, it is essential for residents, and the global community, to work together in addressing this crisis. The people too have a role to play through conscious consumption, waste reduction, and supporting eco-friendly initiatives.

Chennai's struggle against the impacts of global warming and climate change is a stark reminder of the urgent need for collective action on a global scale. By acknowledging the challenges at hand and working collaboratively, we can hope to safeguard the city's cultural and natural heritage for generations to come. The time to act is now, as Chennai stands in the face of a changing climate crisis.





#5 Student Reflections



Melting Away

Siddharth (Grade 11 Student)

The Impact of Climate Change on Polar Ice Caps

Climate change is an urgent global concern, with far-reaching consequences that touch every corner of the Earth. One of the most visibly affected regions is the polar ice caps, where the effects of rising temperatures are becoming increasingly evident. The polar ice caps, found in the Arctic and Antarctic regions, are experiencing rapid and profound changes that have serious implications for the environment, wildlife, sea levels, and global climate patterns.



Melting Ice and Rising Sea Levels

The most glaring consequence of climate change on polar ice caps is the rapid melting of ice. As temperatures rise, both air and ocean, the ice sheets and glaciers that have existed for thousands of years are starting to melt at an alarming rate. This meltwater contributes significantly to the rise in sea levels, which poses a serious threat to coastal communities around the world.

The melting of the polar ice caps also has geopolitical implications. The opening of new shipping routes in the Arctic due to reduced ice cover has the potential to reshape global trade patterns. It also raises questions about territorial claims and resource extraction in the region, leading to potential conflicts between nations.

Addressing the effects of global warming on ice caps requires a concerted effort on a global scale. Reducing greenhouse gas emissions, transitioning to renewable energy sources, and implementing sustainable land use practices are crucial steps in mitigating further ice melt. We have done a lot of damage to the planet, and it is time to put it all right. Let us watch the Carbon footprint that we all leave behind and usage of renewable resources reduces the depleting of non-renewable resources.



#6

“LITTLE THINGS PLEASE LITTLE MINDS”

Ms. Srividya and Ms. Saradha Gopi (Grade 2 Science Educators)

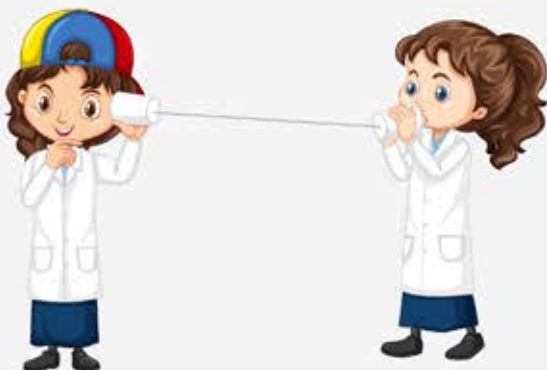
“Science experiments ignites the spark of curiosity within us.”

The curiosity of how sound is produced began with the Grade 2 science enthusiasts through this mini workshop.

Sound envelops us and accompanies us in all our daily activities. It furthermore plays an essential role in our subsistence: It informs us of the nature, space, objects, and actions. We communicate by using our ears to hear every sound, whether we are listening to auditory words, expressive tones, sighs etc. Sound is produced when an object vibrates.

Our Learners used simple materials to produce sound and pitch. They really explored and produced wonderful ideas of the sound produced around us. The students were able to share what they learnt and spoke confidently. We could witness and recognize the sounds which we used to make in our childhood. They were very eager and enthusiastic to show the live demo of the experiments and we heard a variety of sounds like sound a bee, sound of duck and many more. The students also demonstrated several types of pitches through different water levels in the glass containers. We had few students who made musical instruments out of simple things which was available.

How sound travels? How an object vibrates? The answers to these questions were very well explained through each experiment. It was amazing to see these young minds becoming inventors. So, lets encourage our young scientists to explore more, learn more and experiment more. The sound created and delivered on this day was a melody to our ears, which will be etched eternally in our memories.







#7

HAPPY'S VISIT TO CLASS



Ms. Anam & Ms. Aparna (Grade 3 English Educators)

In connection with their SEL, the students of grade 3 were surprised and excited to welcome a canine friend to their class. 'Happy', the adorable Golden Retriever was eager too, to meet his little friends!

A special thanks to **Ms.Poushali Mukherjee and Mr.Priyanshu Muthu kumaran** who brought the paw visitor to class and answered to the students' questions about 'Happy'. "What did he eat? How does he react when he is happy? Will he show anger? Does he understand if someone in the family is sick?" ---These were a few queries the children inquired and comprehended. Later, they came to an understanding through this experiential learning that dogs show empathy just like humans!







#8

BIRTHDAY CELEBRATION

Ms. Aparna (Primary English Educator)



Celebrating a birthday is not complete without the innocent little geniuses of our family singing 'Happy birthday' with pure love straight from their hearts. Our beloved Principal **Asma Mam** celebrated her birthday amongst her lovable and cutest family members with happiness and heart filled with content. The children showered her with birthday cards and chocolates loaded with love.







#9

Kindergarten Raksha Bandhan Celebration

Ms. Sivaranjani S (Nursery Educator)

"A sibling bond is about trust, love, and friendship for life. ..A festive aura enveloped in the Kindergarten Wing as the joyous celebration of Rakshabandhan unfolded. The adorable students from Kindergarten adeptly crafted their individualistic "Rakhi" vibrant and replete with colors. Guided by their teachers, the significance of Rakhi was imparted, emphasizing the symbiotic bond it represents. Raksha Bandhan is commemorated in schools as a festival that strengthens the bond between students. It involves the girl's students of the class tying colorful threads called "Rakhi" around their friend's wrists, fostering a sense of care and protection. This celebration promotes unity, love, culture & respect among classmates and reinforcing the sibling connection. Here are a few stills from our Raksha Bandhan celebration with their friends and teachers.









#10 ONAM CELEBRATION

Ms. Aparna(Primary English Educator)



The Onam celebration at BHIS-K started with setting up of an attractive floral decoration (pookalam) in the Rayyan hall. The Impressive design and artistic creativity of the Pookalam turned out to be attractive and mesmerizing and took everyone into a world of festivity and fun.

The main attractions of the programme were Onappattu, speech explaining the story and tradition behind the event, kept the students informed the importance of celebrating the festival. The group dance (Thiruvathira Kali) by the teachers of the school added to the festivity.

Our Principal **Asma Mam** joined the celebration by inviting the teachers clad in Onam Saree for a dance. Students cheered their Principal and staff for the performance.





