

SCIENCE SHORE

exploring the ocean of life

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SCIENCE ARTICLES

SHORT STORIES & ARTICLES

POETRY

HOBBY & ART

AUDIO & VIDEO

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CONTENTS

SCIENTIFIC ARTICLES

**CURRENT NEWS - SCIENCE SERIES
SERIES 11 - BRAIN CHIPS OR NEURAL IMPLANTS** 1

-GITA BHARATH

STRING THEORY - MULTIVERSE EXIST!! 3

-LEETHIYAL MARGARET.J

SCIENCE-DANCE, PUNS & QUOTES 6

- Dr. THIRUPURASUNDARI C J

CONTENTS

ART AND HOBBY

DOODLE ART TITLE : TREES - ALEENA R. BRIGHT	7
PAINTING -JUAN LENJU	7
PAINTING - JULIAN LENJU	8
ART -Mrs. LATHA SANKARI . K	8
ART -Mrs. LATHA SANKARI. K	8
COLOUR PENCIL DRAWING -RAJA MARTIN. B	8
CROSSWORD PUZZLE A - D.M.MUKUNDHAN and Dr. THIRUPURASUNDARI C J	9
CROSSWORD PUZZLE B - D. RUPPESHWARI and Dr. THIRUPURASUNDARI C J	10

CONTENTS

GENERAL ARTICLES, RESEARCH ARTICLES AND SHORT STORIES

REDEFINE MENTAL HEALTH AS PLEASURE AND PEACE	11
-GLADSON MATHEW	
FEEDING BIRDS AND ANIMALS	13
-HEMA RAVI	
FIRE SERVICE RESCUE	14
-T S MANOHAR	
CHOCO DAY	15
-Dr. (MAJOR) NALINI JANARDHANAN	
SUBCONSCIOUS OBSERVATION BELIEF SYSTEM (SOBS) - UNDERSTANDING INNER ENGINEERING (PART 7)	16
-ORBINDU GANGA	
PARALLEL UNIVERSES: FINDING THE POSSIBILITIES (PART 3)	17
-ORBINDU GANGA	
INVISIBLE THREADS	19
- Mrs. SETALURI PADMAVATHI	

CONTENTS

POETRY

KALKI	21
-GITA BHARATH	
I WRITE	23
-JAYALAKSHMI	
ALL IN THE STATE OF MIND	24
-JELLIE N.WYCKELSMA	
CHANGE	25
-JELLIE N.WYCKELSMA	
CARROT CALLING	26
-KAMAR SULTANA SHEIK	
TWENTY NINE YEARS!	27
- Rtd. Prof LATHAPREM SAKHYA	
FIGHT, OVERCOME AND SHINE	28
-K. MONIKA	
AUREATE - A POETIC RENDITION FOR MOTHER'S DAY	29
-NEHA S CHAKRAVARTHI	
SOMETHING SO BEAUTIFUL 'BOUT MIDNIGHTS	30
-NEHA S CHAKRAVARTHI	

CONTENTS

POETRY

A FLOATER NO MORE	31
-ROOPA SUBRAMANI	
CAN WE COMPREHEND? CAN WE?	32
-Dr. SANGITA KALARICKAL	
THE LIGHT OF THE WORLD	33
-Mrs. SETALURI PADMAVATHI	
FRIENDSHIP	34
-Mrs. SETALURI PADMAVATHI	
THE BELIEF TO FIND YOUR WAY TOWARDS THE BRILLIANT PATH	35
-SHINY VIKAS	
PHONE CALL	36
-SUJATHA SAIRAM	
IF I'D GET TO MEET DISTANCE	37
-VARNIKA SAI MAGESH	
THOSE EYES	38
-VARNIKA SAI MAGESH	



SCIENTIFIC ARTICLES



CURRENT NEWS IN SCIENCE

SERIES 11 - BRAIN CHIPS OR NEURAL IMPLANTS

GITA BHARATH

Recently, Artificial intelligence in the form of ChatGPT and other apps have been much in the news. Another significant development that could revolutionise our society is in the field of neural implants. Although the technology is still in its infancy, the potential benefits are enormous. The potential risk of brain control by the unscrupulous is too far in the future to daunt present research in this field.

What are brain chips and how can they benefit humans? This is a question that has been in the news recently. Brain implants, or neural implants are devices that connect to the brain, placed on its surface or attached to the cortex.

Robocop, the Matrix, Terminator Salvation, are a few popular movies where this concept has been used to showcase enhanced abilities in the recipient of a brain chip as well as external control of such a brain by outsiders for their own purposes. The science fiction genre abounds in such stories as do several video games.

Scientists have explored the brain's electrical signals over the past century, but the modern era of connecting brain activity to computers accelerated in the early 2000s with a pioneering company called Cyberkinetics. The field has separated into companies aiming to read brain activity with external devices that are worn and those implanted inside the body.

Neuralink, building a high-speed interface between brain and device for the public, and finding ways of treating spine and brain injuries are along the way. Neuralink has designed a computer chip to be stitched into the surface of the brain, and a robot to perform the surgery.

Blackrock Neurotech, headquartered in Salt Lake City, aspires to cure physical disability, blindness, deafness, and depression. The NeuroPort Array chip enables individuals to control robotic limbs and wheelchairs, play video games, and even sense feelings.

Current brain implants are made from a variety of materials such as tungsten, silicon, platinum-iridium, or even stainless steel. Future brain implants may make use of materials such as nanoscale carbon fibers (nanotubes), and polycarbonate urethane.

Nearly all implants require open brain surgery, but, in 2019, a company called Synchron was able to successfully implant a brain-computer interface via the blood

vessels. Current research is aimed at enabling paralyzed patients to move external devices through thought and facilitating thought-to-text capability in this population.

In 2012, a landmark study in *Nature*, led by pioneer Leigh Hochberg, MD, PhD, demonstrated that two people with tetraplegia were able to control robotic arms through thought when connected to the BrainGate neural interface system. The two participants were able to reach for and grasp objects in three-dimensional space, and one participant used the system to serve herself coffee for the first time since becoming paralyzed nearly 15 years prior.

In October 2020, two patients were able to wirelessly control a Surface Book 2 running Windows 10 to text, email, shop and bank using direct thought through the Stentrode brain computer interface. This was the first time a brain-computer interface was implanted via the patient's blood vessels, eliminating the need for open-brain surgery.

Are we entering a new era? It seems frightening to tamper with the human brain...but what if we can enable all the physically challenged to be whole again? What if we can become a saner, more brilliant race, using the full potential of our brain? There are exciting times ahead, surely for the 2030s and further into the future! Onward Ho!

Courtesy : References from Wikipedia, The Washington Post

STRING THEORY – MULTIVERSE EXIST!!

LEETHIYAL MARGARET.J

ABSTRACT

Multiverse.... Multiverse, it doesn't just exist in fantasy, Great scientists have proved the possibility of its existence about 100-120 years ago. All this goes back to a certain special theory called string theory. Now before going mind bogglingly big about other universes, we must go to something very small in fact this something is the smallest of the small, smaller than fundamental particles like atoms, neutrons and even electrons- that is - Vibrating strings. We will see more about this soon. And another topic or query about string theory is the presence of dimensions. Now string theory can't exist in just 3 Dimensions, it needs more, it even talks about the proof of the prevailing theory about the extra dimensions which is nothing but the proposed additional space or time dimensions beyond the (3 + 1) typical of observed space-time, string theory also questions the stake of the big bang and certain astronomical numbers which makes up the universe. Now even though string theory talks about strange and impossible entities, string theory in recent years comes on the side of the ones winning the argument, meaning it's winning and we are closer than ever to prove its existence!

INTRODUCTION

To put it in very simple terms, String theory states that the fundamental particles that make up anything in the universe are not particles at all, in fact, they are even more tiny and minute, they are strings and to be even more clear they are Vibrating strings!!

VIBRATING STRINGS

Inside particles we find atoms, electrons etc but if we magnify even more we will find tiny strings. And these vibrating strings are the ones that make up the order of the universe. To be concise, these strings vibrate in different tones, like the notes of music and these different kinds of vibrations are the ones that make up different kinds of particles that we know of !! Now it's quite alright and majestic to say that everything around us (any matter) arises from the music of these Vibrating strings. Everything seems to go right, then where does it go wrong now? The answer is maths. The maths of string theory proves it wrong, unless we take something else and add it into this play. String theory is justified only when you take extra dimensions (superior dimensions other than the persisting 3 dimensions) into account. It requires extra dimensions of space - time for their mathematical consistency. To be even more precise it needs 10 dimensions. Not even 4 but 10 dimensions!! Scientists gave answers for this in accordance with string theory itself. It states that other dimensions do exist but we just can't observe them as they are not infinitely large . The other extra

dimensions are tiny dimensions which are curled up in space- time and not as visible as the prevailing 3 Dimensions. Interestingly, the Vibrations of the strings depend on the shape of these extra dimensions. We know that these vibrations are vital as they are the ones that decide on the formation of fundamental particles, so now the extra dimensions might have a lot of forms and shapes and each of these shapes of an extra dimension will give rise to a different universe with different laws of physics...

FINELY TUNED NUMBERS

Our universe is based on a set of certain numbers like mass of proton, mass of electron, strength of Gravity, strength of fields etc . Let's say that we have some 15 or 20 finely tuned numbers like these calculated with heavy precision and most importantly we don't know why these numbers have these certain values. But what we do know is that these values are highly vital for the existence of the universe. But if we do something and mess up with these numbers, our universe won't exist, it might be torn apart, destroyed or even disappeared. Therefore these numbers are the ones that describe the universe as we know it now. But what about its explanation? We believe that string theory can give answers to this question and also there are possibilities that at certain places these numbers might be different or even more unique which gives birth to other universes. Hence there might be other universes with different sets of values for these. To put it in a bundle - Multiverse. If you say the multiverse is fantasy, then why are these numbers so finely tuned in the universe? The question we obtain from the universe is the hint !!

BIG BANG

The very starting point (existence of the universe) itself gives rise to the possible existence of other universes. The Big Bang doesn't really explain everything, it left an important part. What was the very force that led to the immense expansion of the big bang (Creation of everything) and what happened to that force afterwards? Here Comes inflationary cosmology, which is nothing but a field that states that the power for the bang was produced by quantum fields. Quantum fields are some of the deepest mysterious entities which are said to have made anything in our everything. They sometimes act as particles and sometimes as waves and to add to that they are partly invisible fields. But the main thing here is that this power is so very powerful that it won't stop with just one big bang. It contains unimaginably tremendous and never runs out of power such that it will create many more countless big bangs and hence leading to the creation of multiple Universes . Making our universe just one in many.

CONCLUSION

Why string theory? Why gravity? Why relativity? Why do Scientists try to prove anything in this universe ? Space or particle physics is a subject where you write paper after

paper just to come to the conclusion of nothing. Every proof about life in this universe is only a search to figure out the Unified Theory - THE THEORY OF EVERYTHING. The theory of everything is the theory which hopes to answer all the questions in the universe, a theory to explain all fundamental forces and fields. Basically to find what is actually the many universes made of.

So I'd like to conclude by saying that it won't be long until we grasp the well-tested proof about the multiverse.

SOURCES

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SCIENCE-DANCE, PUNS & QUOTES

THIRUPURASUNDARI C J

1. Be keen on your cues, amuse your dance partner with your grooves
2. For your muscle memory, dance repetition is primary
3. Ballet, Hip-Hop, Jazz, Contemporary & many more are great ways to keep stress at bay
4. She strode up to the room, in a dancing mode and with beauty bestowed
5. Speak your heart through dance, dispel a bleak day!
6. Differently abled? Adopt an adaptive dance program, pat your untapped abilities
7. I got my DOSE* by dancing. Have you?
(*Dopamine, Oxytocin, Serotonin, Endorphins)
8. Dance & romance, blush in love, brush aside your shyness, let your oxytocin rush!



ART AND HOBBY





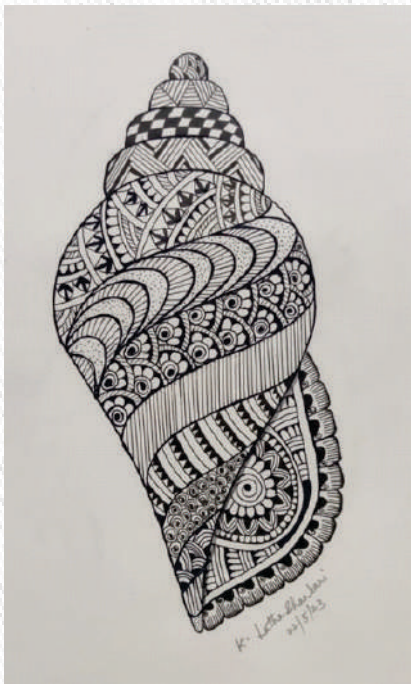
DOODLE ART by ALEENA R.BRIGHT
Title : Trees



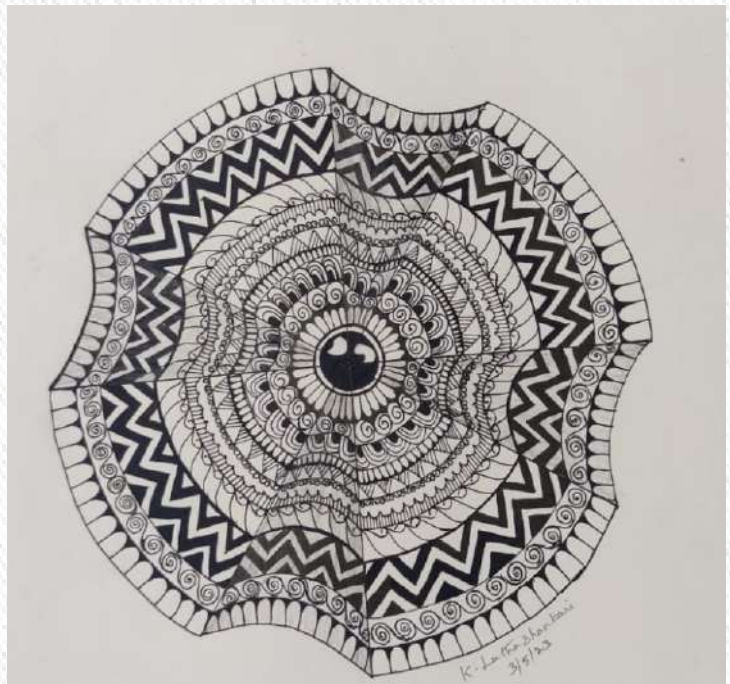
PAINTING by JUAN LEJU
This painting he did following a YouTube demonstration and guided
by his grandmother artist,
Rtd. Prof Latha Prem Sakhya



PAINTING by JULIAN LENJU



**ART by
Mrs. LATHA SHANKARI. K**



**ART by
Mrs. LATHA SHANKARI. K**



COLOUR PENCIL DRAWING by RAJA MARTIN. B

Children's Section

Puzzle Corner

A. Crossword puzzle

Created by D.M. Mukundhan & Dr. Thirupurasundari C J
(Hint-Related to dance)

1	U	2S		C						
S										
		L								
		2E		3			4S	5I	N	
E				R						
				A						
							E			
							S			
				I				Y		
				E						

ACROSS

1. Makes one happy
2. Capture the audience

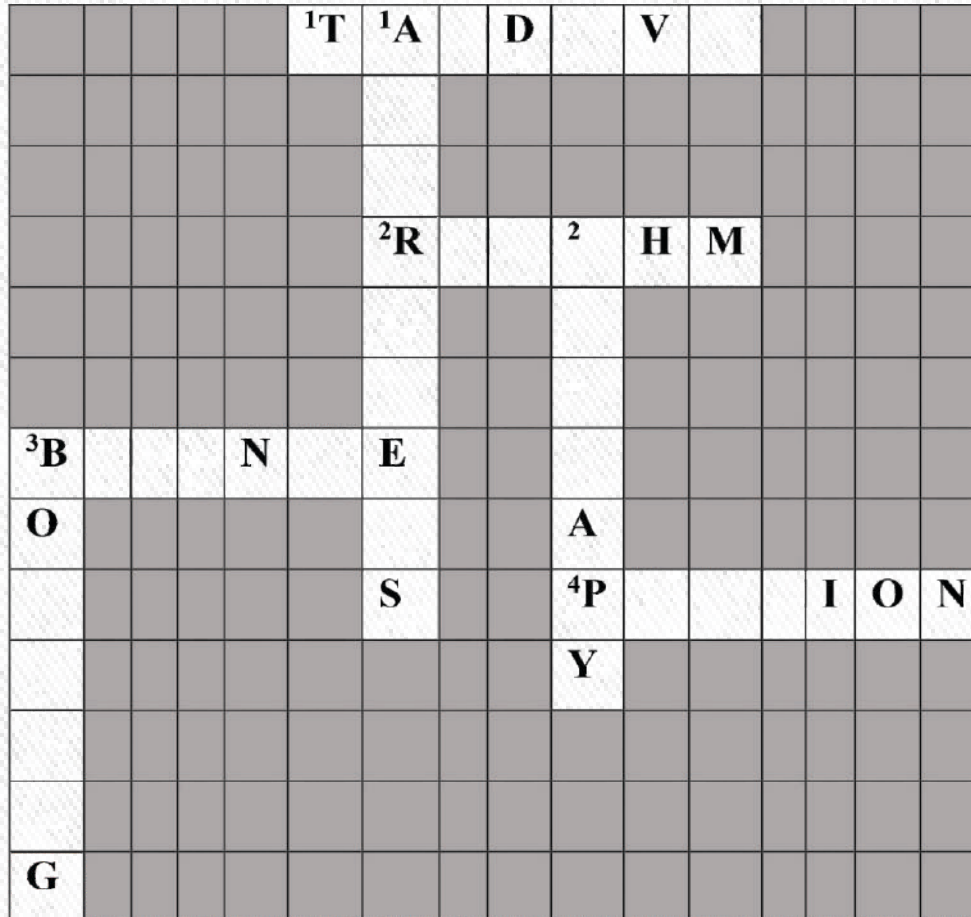
DOWN

1. Increase your_____ strength
2. Your body movements
3. Repeat to master the moves
4. Helps swift footwork
5. Search for ice-packs

Answer in Page number - 18

B. Crossword puzzle

Created by D. Ruppeshwari & Dr. Thirupurasundari C J
(Hint-Related to dance)



ACROSS

1. Divine dance
2. Basis of dance
3. Brain & muscle coordination
4. Feeling relaxed, as dance is my _____

DOWN

1. Mind & Body coordination
2. Treating disorders through dance
3. Builds unity

Answer in Page number - 22



**GENERAL ARTICLES,
RESEARCH ARTICLES
AND SHORT STORIES**



REDEFINE MENTAL HEALTH AS PLEASURE AND PEACE

GLADSON MATHEW

"The greatest happiness and peace of mind come from within when we prioritize our mental well-being and embrace pleasure as an essential component of a fulfilling life," says Carl Rogers, a prominent humanistic psychologist. He believes that true happiness and inner peace stem from within, emphasizing the importance of ranking mental well-being and embracing pleasure as a fundamental aspect of a gratifying life. This paradigm shift redefines mental health as not just the absence of illness, but also the presence of pleasure and holistic well-being. It recognizes the significance of pursuing joy, contentment and inner harmony.

"True mental health is not just the absence of distress but the presence of joy, contentment, and inner peace. It is a state where pleasure and tranquillity coexist harmoniously," says Abraham Maslow, well-known for his hierarchy of needs theory. He further expanded on this perspective, stating that genuine mental health encompasses not only the absence of distress but also the presence of joy, contentment, and inner peace.

By giving priority to pleasure and peace, individuals are empowered to proactively invest in their mental well-being. This involves embracing self-care practices and seeking environments that foster happiness and serenity. Ultimately, this approach encourages a life enriched with genuine happiness and profound peace, going beyond merely overcoming challenges.

An example of embodying this life can be found in the story of Jenny(it is a changed name for the sake of respecting confidentiality) a woman living in a small coastal town in Kerala whom I came across in one of my professional counselling sessions. Despite facing the heart-wrenching loss of her husband, who had struggled with addiction and mental illness, Jenny refused to be discouraged. With determination, she worked hard to provide her two children with good education and the necessary skills for successful careers.

Jenny's unwavering dedication allowed her to overcome numerous challenges, to ensure her children had a solid educational foundation that would eventually lead to finding fulfilling jobs. Her resilience and unconditional love for her family exemplified the profound impact a mother's devotion can have on her children.

Furthermore, Jenny immersed herself in creative pursuits, painting vibrant canvases to reflect her innermost emotions. She sought connections with like-minded

individuals, nurturing relationships that valued authenticity and vulnerability. Jenny's compassion naturally flowed, uplifting others through her words and actions. Her radiant energy, sparkling eyes filled with joy, and contagious laughter with an irresistible feel of positive vibe drew people to her, finding solace and comfort in her magnetic presence.

During World War II, Arthur Hays Sulzberger who served as the publisher of the New York Times, found that the global conflict made it incredibly difficult for him to sleep. His worries consumed his mind until he found solace in a simple motto: "One step enough for me."

These words were inspired by a line from an old hymn that goes,
"Lead, kindly light...
Keep Thou my feet;
I do not ask to see the distant scene;
One step enough for me."

Jenny's story too serves as an inspiring testament to the transformative power of prioritizing mental well-being, embracing pleasure, and nurturing positive relationships. It highlights the potential for genuine happiness and profound peace that can be achieved by adopting this new perspective on mental health with a single step ahead with much optimism and realistic touch.

It is important to note that just as we are not only unable to see distant scenes, we are also not granted that ability. So instead of endlessly searching for it, it's better to let go. A good friend does not promise us a crystal ball to see the future, but rather provides us with a lamp to guide our immediate steps. We do not need to know what will happen tomorrow. What truly matters is the assurance that we will find grace to help us when we need it, as self-evident in true life as well.

FEEDING BIRDS AND ANIMALS

HEMA RAVI

'Sharing' food with birds and animals has existed from time immemorial. "The feeding of birds suggests numerous avenues of research such as where, when, how and why it began. Also how is it that people come to view some birds as beloved but disdain others? And that in turn brings up the deep philosophical question of squirrels. In Britain, Dr. Gary Marvin said, people spend somewhere around 200 million pounds feeding birds, presumably because they like them, and want to be close to nature. But they don't like pigeons. And squirrels are beyond the pale." "You've got good and bad creatures in your back garden." (Reproduced from an article in New York Times)

A common sight around our neighborhoods is spotting canine lovers who bring along large containers on two wheelers; alight and with much love and care place them on paper sheets for the street dogs. Watching the mongrels wagging their tails at the sight of these good Samaritans generates child-like delight.

My early morning routine includes offering 'curd' rice or 'rotis' to the crows. I have often observed crows swooping in with 'caws' to welcome their friends. A pair of pigeons (daring!) flit in and chase away the crows. Within a few minutes, another crow flies in, the pigeons retreat hastily, only to come back again. The whole process continues until the food is consumed in a few minutes. On a few occasions, I have observed squirrels chasing away the birds. This banter-chase continues day after day; amidst it all, the birds get their tiny morsels that gives them vigor to fly and spot more such offerings in the neighbourhood.

Offering food to crows is customary in several homes, perhaps guided by religious beliefs; I certainly believe it to be a gratifying pastime....



FIRE SERVICE RESCUE

T S MANOHAR

The Indian Premier League (IPL) is a great draw and has a huge following for glitz, glamour and all out action. Unlike the conventional form of cricket, the IPL with the twenty over format and players from different countries making up each team, every match is very competitive. Precisely why, people throng the stadiums across the country in huge numbers cheering their respective sides. The ring side view of the action is a happening experience. The ever changing dynamics of each match makes it all the more thrilling and pulsating. This year's final is a classic example when the title winner was decided of the last ball! "Not for the faint hearted" exclaimed my neighbor who prefers to watch the highlights unable to stand the tension watching it live.

IPL is a two month long fixture of 28 odd matches, of which I watched only a few at the stadium. My grandnephew, an ardent fan of CSK (Chennai super kings), would stay awake till midnight to watch the matches on the television. We did watch a few at the stadium too. With the compulsions of family functions, we had to skip watching a few matches. He would have none of it. On one such occasion, we had left him to watch the match and returned home in an hour. During one of the drinks breaks (strategic break), he decided to take forty winks but went into deep slumber. On reaching home, we could not enter despite having the keys because he had bolted the doors from inside. The ringing of the call bell or banging of the door had no effect on his blissful siesta. After an hour and more of our desperate efforts, we decided to call in the fire service.

No sooner they arrived one personnel climbed onto the ladder to the second floor and called out to him through the shutters. My grandnephew was slouched on the sofa and was sleeping like a log. The fireman took out his torch and flashed it on his face. The light and the heat of the torch woke my grandnephew instantaneously. Collecting himself, he quietly opened the door. When we entered the house, he felt stupid and sheepish.

We thanked the fire service personnel for bailing us out in a tricky circumstance so quickly. Over a cup of tea, the head of the group spoke with clarity and purpose on their service. "We face challenges of different dimensions every day. We are called to liberate a crow entangled on strings atop a tree or to rescue a stray cat fallen into a deep well or to bring down a man who had climbed the top of a tower threatening to commit suicide through persuasive compulsion too. Hence calling us firemen is a misnomer. We ALSO do firefighting on occasions".

It was indeed a never forgettable experience of our life time.

CHOCO DAY

NALINI JANARDHANAN

“Mumma, let us go out and enjoy this evening.” My daughter Swarna was excited about our day out. In fact, she was busy with her exams, and she wanted a well-deserved break.

We reached the ice cream parlour. ‘Mom, I want chocolate ice cream. What about you?’ she smiled and took the menu card. “Ok, my dear Choco girl! I want Strawberry ice cream.”

“Mom, do you remember our favourite brown balls? They were yummy, no? And our children's park in Jodhpur...where we used to sit in the swing and share our cute little stories? I wish to go back and relive those days.”

“Absolutely my doll! They are nostalgic memories for us. You don't worry darling...I am always there for you as your Best Friend Forever!”

“Yes, my dear Best Friend! Here comes our ice creams...Let us taste the ice creams, Mumma. Do you remember the saying 'I scream, you scream, and we all scream for ice cream?' See, the ice creams look delicious.”

They enjoyed the beautiful evening. The loving mother and cute daughter walked out hand in hand. They also bought Mini chocolate pieces. Those memorable moments were close to their hearts....like their favourite Chocolates.

SUBCONSCIOUS OBSERVATION BELIEF SYSTEM (SOBS) - UNDERSTANDING INNER ENGINEERING (PART 7)

ORBINDU GANGA

Inner engineering is knighted with the aura of being elusive and accessible to the very few. With the thought of transformation, many are drawn into the web to become accessible to the elite. Never should a thought become an elusive substance to become the elixir, a thought is always unique and should always be treated for its uniqueness. Understanding a thought is significant to travel on a beautiful journey, the flow of the thought and its journey is attributed to the way the fragrance is imbibed and smeared around.

The form is a sacred sanctorum being seen as a physical entity encapsulating many physical and biological functions for the known. Inquisitiveness to imbibe from the flow is intuition that cannot be deciphered by the known. The ability to see the form is hackneyed but to observe the form one ought to observe beyond the form to a formless entity. Through observation, the flow of the inner Santorum can be felt. Visualising and understanding the flow requires patience and perseverance to be imbibed in the curve of the beautiful journey.

Searching for happiness has always been conditioned to become the designated designed belief system. Being conditioned from the inception, the changes are inclined with the conditioned thought. To be away from the conditioned is never encouraged. Even if the maieutic wind blows, it's been curtailed in a refined way. Understanding happiness to bliss is a journey, the materialistic yearning withered to the emotional nuances, is a beautiful phase of the inception of knowing the bliss to be within than outside. The more refined phase from the bliss to the state of mind becomes the unconditioned state of free flow.

The Subconscious Observation Belief System (SOBS) explores each creation within the form, navigates the flow to smoothening the substances, and observes the cessed substances to cleave the traces behind them. SOBS ameliorates the unconditioning of thoughts and brings lucidity in the exploration of the inner self to be in the flow, cleansing the traces in the journey.

The flow of the journey will be beautiful once the inner self explored is enjoying the journey for the self to blush and glow. The light shall rise and fall from dawn to dusk, what remains is the joy of living each moment and exploring the untapped wealth within the form for the formless entity to subconsciously realise the existence of bliss beyond the comprehension of the human mind.

PARALLEL UNIVERSES: FINDING THE POSSIBILITIES (PART 3)

ORBINDU GANGA

Looking in the dark firmament many blush twinkling at will, the crescent staring at us to get thawed in her beauty. We see the most captivating among the many, some yearn while others give a glance, never would have we observed the curtains behind the detractors. The most enticing always be the first to be decoded, to be refined by the onlookers. Being the cynosure, they glow in the limelight leaving the surrounding becoming oblivion. The unforgotten is the one that defines the captivating to shine.

The seen is never real, the possibility of looking real has been the idea to be captivating. To be knighted among peers has always been gushed in the mad race to excel, to garner attention. To be visible, the form is desperate to tick all the possible boxes without having an iota of thought within the crevices that the existence of seeing self in the mirror need not be completely true. The truth of having possibilities of many copies was never venerated in the conscious, the mirror was disguising them as real. The reflection of the form was looked at consciously without any disbelief.

The existence of a thought to exist from the former and deviate from a possibility of existence though never in real have always been an ambitious study. Many have postulated the existence of another world without having convincing facts. The scientific world is awakening to the possibility of the existence of another world, a parallel universe. With every action, there is a possibility of two reactions that can further divide as the reactions become actions. Such a possibility of the existence of many shall create a multiverse that needs more layers to unveil. Let us start with a parallel universe where the existence of physical form is beyond human comprehension. But the existence of a parallel universe cannot be ignored.

The thought of the existence of a parallel universe was never in the realm of discussion since it was thought to be many light-years away from us. But the inquisitiveness to touch upon the subject took greater interest and the misconception of the physical distance was corrected. The existence of a parallel universe has been layered within the reach of our existing universe. With many slips of events being recorded, the possibility of the existence of another dimension is just not a possibility but a probability to be unveiled.

The observable has been defined as functional aspects with many existing to be unknown existing in nature. To permeate to another dimension, the existing thought process is not sufficient to bridge the gap of understanding. With mere qualitative analysis to postulate the existence of another dimension, the conundrum cannot be solved. But the fact of the possibility of a probability of existence gives more hope to unravel the mystery of the universe. We might indeed find duplicate copies of self to exist in reaching distance in future. The thought to explore from the existing shall make way for the truth to be unknotted.

Solution to Crossword A

¹ M	U	² S	I	C								
U		T										
S		Y										
C		L										
L		² E	X	³ P	R	E	⁴ S	S	⁵ I	O	N	
E				R			H		N			
				A			O		J			
				C			E		U			
				T			S		R			
				I					Y			
				C								
				E								

INVISIBLE THREADS

SETALURI PADMAVATHI

Love is a light in a sea of darkness when I see a human with a heart of blackness. I seldom wish to be free lace, but it seems to be a laugh in a sea of sadness. If I'm enthusiastic mentally and physically, I feel as proud as a peacock that jumps with joy! This period helps me act as brave as a lion everywhere! What a human tendency! Even though I will become less energetic one day, I feel I shouldn't depend on others as much as possible.

Though I wish to be independent, it's highly impossible to survive without human relationships either with my relatives or close friends in this universe. We all are social animals and depend on each other for many things and reasons. Is it possible without love? Never! I assume that we evoke others to love us, and it is known as true love in any kind of relationship. As we all know no one can be pretentious to love someone else. Indeed, every human being feels the same!

In modern society, the proverb "the blood is thicker than water" is used to imply that family ties are stronger than bonds between friends. On the contrary, we see the decline in large families which emphasized societal ties, and the increase in nuclear families which made us feel our life is easier. This separation brings inevitable changes in culture, traditions, and customs that are unavoidable. Likewise, life is an adjustment in this long journey, experiencing gains and pains.

Today's younger generation is as different as chalk from cheese since they think life is very practical and prefer to reduce societal gatherings for immense reasons. In my view, most of them are immature and lack exposure that helps them analyse humankind. A man began using able men and loving things at this juncture.

The world is a global village that makes our correspondence much easier due to the development of science and technology. However, this communication never equals the meeting of people which creates a special room for mental attachment. Is this human connection steadily disappearing? Do people still maintain true love and affection? We often see nomadic lifestyles in every nation due to varied reasons which make men ignorable in this regard as they want to prosper either academically or professionally.

Money also plays a vital role in developing relationships and showing the standards of life. Money, which is essential to lead lives brings troubles, inferiority complexes, disputes, and mental discomforts undoubtedly. Besides, it increases the distance between relationships and friendships. "Desires are unlimited, and comparisons become compulsory in neighborhoods.

“If we command our wealth, we shall be rich and free; if our wealth commands us, we are poor indeed.”

In nuclear families, the presence of grandparents has become rare which disables the children from learning moral values, beliefs, and societal bindings. Families only could enable them to learn and follow the societal principles and rules that make them grow as good citizens of the nation. This in turn gives them an opportunity to explore various circumstances and situations automatically.

I strongly believe that wherever people reside and work continuously, they often will be ignored or paid less attention to their valuable presence. It is not the result of the lack of time, it is just because of the lifestyle and busy schedules. On the other hand, as human beings live together, connectivity is generated.

Nothing in the world is more dangerous than sincere ignorance and conscientious stupidity. The best and most beautiful things in the world cannot be seen or touched; they must be felt with the heart!

“Being deeply loved by someone gives you strength while loving someone deeply gives you courage. Eventually, everything connects – people, ideas, objects.”





POETRY



KALKI

GITA BHARATH

An avatar shall arise
When violence and vice
Disease and greed,
Take over the world,
It's prophesied.
Through the tunnel of time,
Sages, long ago,
Saw dimly, an Avatar.
A figure on a horse,
Resplendent, a-glow.
Or, was it a horse's face
On a mighty human form?

From the crucibles of crises
All change is born
Is it now time for our
Selfish rapacity
To be shorn?

At this moment in time
We stand at crossroads
We must choose one path
To proceed onwards
Past our unsustainable
Lifestyle.

One road leads to
Reunion with nature
Where we share the earth
With all life forms
As we grow less greedy
And more mature
Retaining unique identities.

The other is to incorporate
The best of every state
Of every living thing

By bioengineering
 Man and evolving
 Into a composite that can
 Live in water, air or land.

The tenth Avatar that we shall behold
 Is ours to imagine, evolve and mould-
 Will Kalki's strength stem
 From the interdependent worth
 Of all life
 Will he be a symbiote on earth?
 Or will it be derived
 From a total change of course
 Away from perceived differences,
 War and force
 Using a tidal wave of technology and science
 To erase the outlines of human bodies and minds
 To evolve exponentially to Superhuman Kind?

Solution to Crossword B

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I WRITE

JAYALAKSHMI

I write

Before the early rays may blot my radiant inklings
depict them to embellish the blooming vistas.

Canny Zephyr will filter them for the blushing daisies

I write swift

For the fuming sun may sip up my fantasies
allow elegance to the rhythmic field flows.

Mid noon wind, inhale them and whisper, pulsating the glazing greenery.

I write ardent

beneath the plight of herons in the pale horizon.

For, twilight may secure my dewy muses

Ornate a glistening garland for the czar of the night.

Leave me, as a lifeless feather

Wriggle on night's avaricious chest.

ALL IN THE STATE OF MIND

JELLIE N.WYCKELSMA

Our mind has its own way
Of thinking and reflecting behaviour
It is a trait of our character
It doesn't take too long to discover that
Like the coin it has two sides
One bad and one good side
The art of gracious and honest living is
To always let the good side override.

Whether involved in personal battles
Or facing mountains of problems at work
Or when strong personalities clash
The person with the positive attitude
Gets helped along with its twin word aptitude
An open mind will win in all situations
It's not easy, but nothing in life ever is
Or was even during older civilizations.

Is our State of Mind everything we might ask
Yes it is, and when applied rightly
It performs successfully with every task.

CHANGE

JELLIE N.WYCKELSMA

Change is like the perpetual waves of the ocean
Like the seconds of time that never stop
Our life is also an ongoing motion
We are born and become vibrant and strong
Yet, soon our strength will weaken and our hair
Will turn into shades of grey before too long

Trees and plants sprout leaves and blossoms too
But flowers will die and in autumn leaves will drop
Yet in Spring new buds will emerge and open anew
Seasons follow each other year after year without fail
When one seasons begins, the next pushes itself into view
To wish one season could last forever is to no avail

Change is the greatest challenge we face every day
Sometimes it might threaten us in our comfort zone
Trying to fight it, is wasting energy one could say
With an open mind we can accept and adjust
To all changes we'll come across in our daily life
On our survival instinct we must always trust ...

CARROT CALLING

KAMAR SULTANA SHEIK

I looked at those orange slices,
And sighed ! Salad again?
My mother's stern frown
Prevented a word from coming,
From my dissatisfied mouth..
Carrots had been prescribed for me
By the family doctor and his word was the ultimate prescription..
I refused carrots the next day
And the next and next.
Of course I was pulled, by the ear,
Landing in his clinic..
"So, she's refusing carrots.. "
This said as if I was not in the room at all..
"If not whole carrots, give her juice.." was suggested..
"Picks them out even in the pulao and pours the juice down the sink "..
Heavy charges against me, I realized..
Just as I was making up my mind to say..
"It's alright. I will somehow swallow the pieces ",
"Why don't you make carrot halwa...add ghee and let the cashews be generous..
"Bring me a bit, too, if you dont mind"..this, with a broad grin..
That's when I tasted carrot halwa,
Richly seasoned with a variety of nuts.
For my mother is generous in her sprinklings and seasonings..
And I ate and ate until the bowl was clean.
And then i learnt to make it for myself,
And then for the guests..
And now, every time I make it,
I remember how food can be medicine, too,
In the hands of the right one.

TWENTY NINE YEARS!

LATHAPREM SAKHYA

But it seems like yesterday.
I was restless from morning.
Running here, running there
As if something was amiss.
Now, in all your celestial beauty
You seized my heart and soul!

Happy birthday my Angel!
Beside my God, singing paeans to him
You must be one of his adorable angels.
You left to your heavenly abode untainted
Just when you started to smile.
Oh, my bud nipped away so young!
Now you must be a beauty,
Charming like your earthly sister.

It took years for me to reconcile
Of your going away to your eternal home.
But I am now, as you are safe there.
Joyful I am that I have an Angel
To serve my Lord day and night
And be a mediator for your family left behind.
Happy Birthday my precious Angel!

FIGHT, OVERCOME AND SHINE

K. MONIKA

When life puts you down
And cram your life with frown
Find a way to wear that triumph crown.
When your aura grows up dark
Without even leaving a single spark
Overcome and show up like a shark.
When life gets fraught with hardship
And when all your efforts get slip
Amass the courage and give a grip.
When life leaves you with teary eyed
And with the despondence tied
Take a turn, prepare yourself to have a pride stride
When you're driven to the fringe of the road
With miseries, impediment on load
Come out of the shell and explode.

AUREATE - A POETIC RENDITION FOR MOTHER'S DAY

NEHA S CHAKRAVARTHI

Sonneting under the crescent's thin shine,
How miraculous that you quell
Any chaos at the blink of your eyes.
How mysteriously you planted morale in me
High up the steepest pinnacle that
No one would dare to rob me of it.
Strange how generous you could be;
And stand out amongst a zillion others.
I take after your aureate hue;
Claim I'd fight the wide world
Just with you on my side.
No volumes of books could be as good as you are
At laying it down for me, the chasmic gaps in life.
Not a minute goes without you consuming me with pride,
For you're the beacon I watch out for in unknown waters.

SOMETHING SO BEAUTIFUL 'BOUT MIDNIGHTS

NEHA S CHAKRAVARTHI

There was but a horde between you and me.
Hustling through, only your dear eyes I wished to see.
I knew that minute... the minute I saw you,
That my love, I was saving up just for you.
A smile brighter than the aurora your lips make,
In falling in love with 'em, joy is what my heart takes.
Tucking cascades that run o'er your shoulders,
Or when speaking in sing-songs with toddlers;
The enticing enchantress becomes mine to own.
Invincible in love, I thought I was;
But you taught me to, in life, take a pause.
Something so beautiful about midnights there is,
That the most you gleam, in the dark tis.
And as you spell out our names together,
It's best I tell you already
That the forever in 'us' is cast in stones.

A FLOATER NO MORE

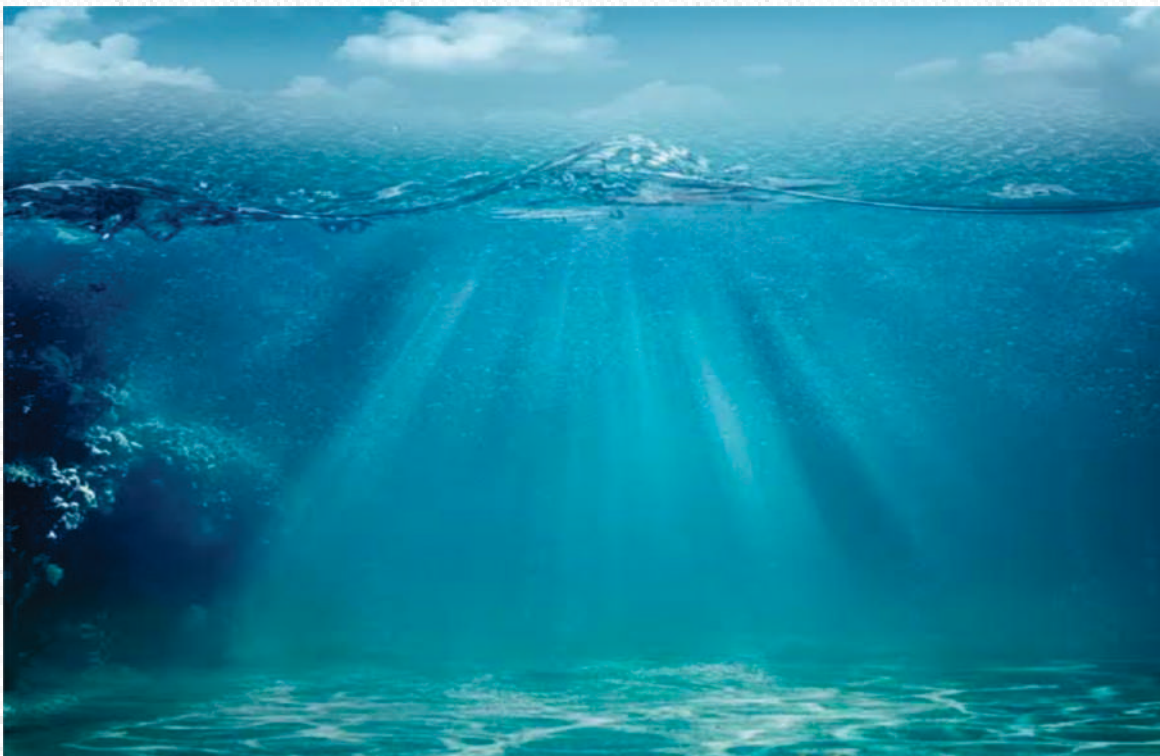
ROOPA SUBRAMANI

We are floaters, ever content with swimming upon the surface,
where the desires of the mind holds us in it's rapturous gaze,
tricking us into hoping a future filled with endless nights and days,
which is pretty far-fetched from the truth of reality's case

Instead, hone the courage to dive deep within, to that unknown place,
where I have been told the real treasure lays,
with love and light casting it's glorious rays,
upon the depths of silence to which even peace, it's obeisance pays,
in that heartland of happily ever after do I long to live under the sturdy shelter of
eternal grace,
in a consciously blissful daze,

A floater no more, but a deep diver sans the familiar face,
with the Heart set ablaze,

I AM free to BE always!



CAN WE COMPREHEND? CAN WE?

SANGITA KALARICKAL

My daughter tells me that all
humans are connected because
"we all come from Mother Earth"

When did she get so wise?
Where did time go?
And if all kids think this,
When did we lose our wisdom?

I focus and refocus
My little telescope directed
Toward the fast moving heavens

I watch the giant storm
churning on Jupiter
and deep lonely lunar craters
and looming shadow of Saturn's rings

If there was air, there would've been
sad long echoes
of forlorn isolation
While we laugh with bounding
brooks or
keep the secrets
of the ocean or
giggle with the spring robin

I may be a frog in the well
But so happy a frog
in this dark vastness

THE LIGHT OF THE WORLD

SETALURI PADMAVATHI

I dreadfully pass through the dense jungle
And cherish serenity at the bank of the river
A responsibility I always seem to bungle
I know the earth is kind and a gift giver!

I see my vague image in the calm waters
The shade in darkness reminds me, of my duty
The flow of the stream is disturbed by a squatter
He is not the legal man to spoil the beauty!

The mighty trees around me caress the soil
Swaying branches whisper stories in my ears
The brownish land is fertile and ready to toil
No weather could inculcate in me, any fears!

The bluish sky is adorned with the rainbow
The sun's rays illuminate the watery body
My eyes sparkle to visualize the great show
The panoramic view is loved by everybody!

I gently glide on my way with a great hope
With no worry, I observantly see the vast sky
The cattle, sheep, and birds with nature, cope
The light of the world says slowly, slowly 'bye'!

FRIENDSHIP

SETALURI PADMAVATHI

Your appearance with a smile
Your amicable gesture
The trust I have in you,
And your energy that boosts me,
Let me survive in this malicious world!

In my muddled and Thorny path
You ever pat me with a warm hand
Money has no role between us
Time connects us, not people
Time, that is the healer of minds!

Relationship is everlasting, dear
Promises, I do keep forever
Neither rain nor sunshine can stop
Travel with me in my mighty ship,
I never throw you in the middle of the sea
O dear, travel in my mighty ship
The comfortable and mighty ship
Friendship.....

THE BELIEF TO FIND YOUR WAY TOWARDS THE BRILLIANT PATH

SHINY VIKAS

I am Lost

Mysteriously

Painfully

Joyfully.

Knowingly

Unknowingly

Brilliantly.

Hopefully

Hopelessly.

In the similarity

In the contradiction.

I'm lost.

till I accomplish my purpose

A daily existence

&

The passage of time

My heart seems to overflow with love.

Every hardship and perplexity

All that does not serve me is being lost.

The truth

Throughout the journey

especially among the collective

In the mindless laws we adhere to,

Delete the false

Losing

Embracing

The elegance of truth and unwavering love.

PHONE CALL

SUJATHA SAIRAM

A gentle breeze.....
awakened the withered soul,
Just then the door bell too....an alarming sound.
Holding the walking stick ,
he went to see who was at the door.
Wearing fluorescent clothes and a cap,
With a bundle of wires nestled on the shoulders,
stood a Herculean line man.
Husky voice as expected...
"How can I help you Sir?"
"I'd been waiting for you day long,
Alas! My wait is over, check the phone there, please!!!!"
A desperate voice it was.
The lineman checked everything around the corner,
"I'm done Sir, guess there's no problem."
The old man in a forlorn tone,
"Oh! Is it then why isn't there a call from my son,
It's eons.....since I've heard him.
No phone calls from him."
Tears welled up....the lineman had no words,
Silently left the place, leaving the doors ajar.

IF I'D GET TO MEET DISTANCE

VARNIKA SAI MAGESH

Why do you reduce the speed of time, but increase the speed of our lives?
Why dictate my life, and the memories I derive?
Why make me steal time to make sure mine's truly mine?
Why rip us to pieces when the stars just start to align?
Why stand between my people beloved?
Have you been that unlucky in being loved?
Why lead to insecurities and misunderstandings?
In your hands, we're like puppets on taut strings.
What do you get out of this cruelty,
This inhumane punishment, this unwelcome vengeance?
But thank you distance, for all the lessons
Thank you for being that ruthless filter,
For you make the heart grow fonder,
And make my relationship with her become stronger.

THOSE EYES

VARNIKA SAI MAGESH

Searched from afar I did,
From one corner of the room to another.
Just to catch a glimpse of those alluring eyes.
Once I saw them gleaming in joy as the sun set,
And I swear looking at them, I got lost.
'Cause Incomparable is the feeling,
with no analogies one could find.
They shone brighter than a clear night's sky,
Reflecting more light than the moon ever could.
Looking into each other's, we sit,
Magical stories of unspoken words we knit
Complement her coy smile so well,
Cupid's arrow's now hit me, and I fell.
Just one caveat there is,
They don't look at her the way they should,
Don't adore her the way I do,
Aren't mesmerized by her deeds as yours truly does,
But that's a lesson to be learnt,
Even the most perfect of things err.



**SCIENCE SHORE
SUMMER HOLIDAYS PROJECTS
FOR KIDS
MAY 2023**



SUMMER HOLIDAYS PROJECTS FOR KIDS MAY 2023

When learning meets fun

Science Shore for the first time organised Read a thon, Arts and Crafts and Nature Walk projects for kids in May 2023. Children from across the grades were a part of this project.

It was wonderful to see children spend their holidays usefully. Children used their imagination and expressed their creative potential.

One of the kids, D.M. Mukundhan also proved his leadership skill by forming a team with his friends and they had a great time working busily on their ideas.

Children enthusiastically shared their creative art and craft work.

For the Read a thon project, Children submitted hand written report about the books they read, three books they liked and why.

Under the able guidance of her aunt, Dr. Thirupurasundari CJ, Editor at Science Shore, Ruppeshwari D presented Nature walk and Art projects.

Certificates were given to acknowledge and appreciate their efforts.

Hearty congratulations to all the children - A. Aaranya, S. Aradhana, Hanisha Angel, D. Kadambari, D M Mukundhan, D. Pradesh, Ruppeshwari D, J.V. Sahitya and B.M. Yatin for their active participation.

Science Shore thank parents and mentor Dr Thirupurasundari C J (who guided Ruppeshwari D) for making the projects a success !

Enjoy their lovely creations !

Thank You !



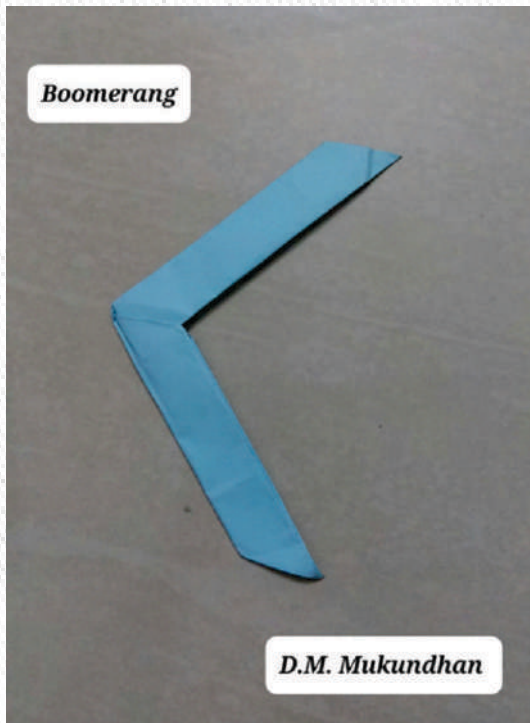
A. Aaranya



Hanisha Angel



D. Kadambari



Boomerang

D.M. Mukundhan



Kitchen knife

D.M. Mukundhan



PS I / PS 2 Sword

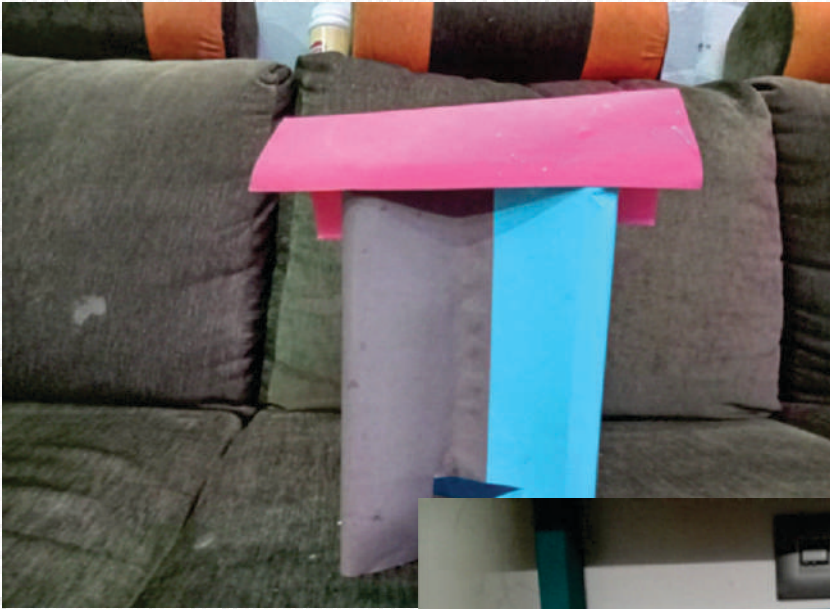
D.M. Mukundhan



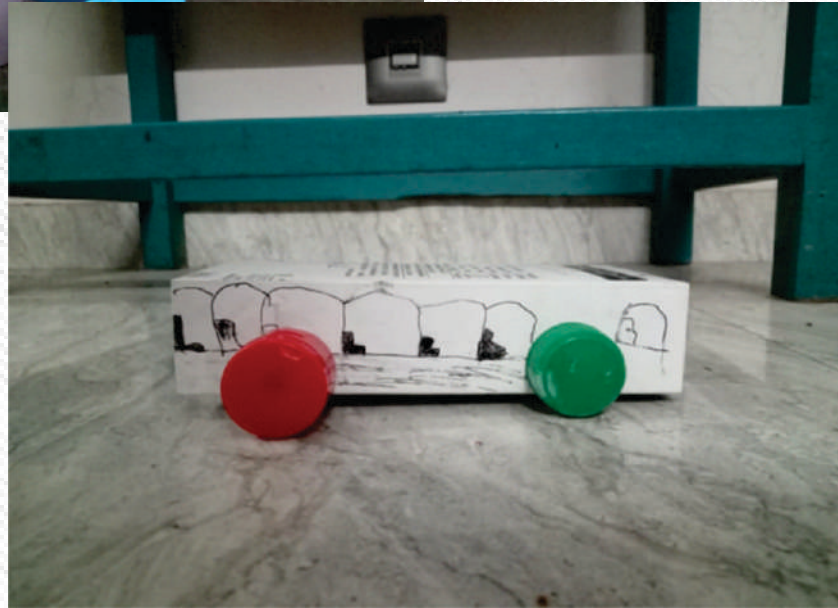
Cessna plane

D.M. Mukundhan

D.M. Mukundhan



D. Pradesh



Ruppeshwari D



miniature bag

j.v.sahithya



oilpastel art

By j.v.sahitya



oil pastel evening drawing

J.V.Sahitya



Sahitya

mini table organizer

J V. Sahitya



B.M. Yatin

Exploring my garden - Nature Walk

By Ruppeshwari. D



Arali:

Other names: Oleander, Devil's Ivy, Nerium oleander Famous for its floral beauty. Blooms all-round the year. This plant has few toxic elements.

Benefits:

Oleandrin-cardiac stimulant, anti-cancer agent.



Sapota-Manilkarazapota

The fruit has a malty flavor. Contains saponin& tannins. Leaves have anti-oxidant properties.



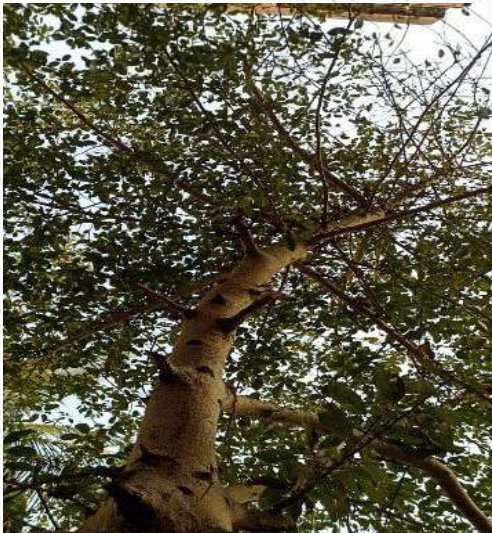
Eucharis Variety

An ornamental plant also called Amazon Lilly



Succulent Indoor plant:

Purifies air!
Require minimal attention.
Survives, harsh climatic conditions too!



Figs (Ficus tree)-Ficuscarica

Delicious healthy fruits,
have crunchy edible seeds.
Both dry and fresh are rich in
vitamins & minerals.
Anti-oxidant-rich fruits.
Natural laxatives.



Sorrel leaves

Tasty leafy vegetable.
Helps in weight loss
Rich in Vitamin A & C,
minerals, and proteins.
Detoxifies the body.
Prevents breast cancer.



We stay in flats, busy area, and hustle-bustle street.

Have too many kittens running around my garden. Love watching them and playing with them. My dream is to live in a house with a beautiful garden outside with lots of flowering & horticultural plants! As of now Grandmom S.Pushpa and I take good care of our garden. Thank you grandma!

Project work done by

Rupeshwari D

9th Class B section

VelammalVidhyashram, Surapet, Chennai-66

Mentor - Dr.Thirupurasundari C J

Here is the Parent Testimonial:

Dear Science Shore eMagazine Team,

I am writing to express my heartfelt gratitude for providing such a wonderful opportunity for kids to participate in the Read-a-Thon and Craft & Art summer activity.

Your e magazine has been an incredible resource for young minds, fostering a love for science and exploration. The Read-a-Thon allowed children to immerse themselves in fascinating books and expand their knowledge in various fields. Moreover, the Craft & Art summer activity was an absolute delight. The creative project sparked their imagination and encouraged them to explore different art & craft work.

It was truly a joy to witness their excitement as they expressed their ideas and learned through interactive and engaging activities.

Your dedication to nurturing the intellectual growth and creativity of children is commendable. By organizing such initiatives, you have made a significant impact on young minds and helped cultivate a lifelong love for learning.

Once again, thank you for providing this enriching opportunity. Your commitment to promoting science education and fostering creativity in children is truly inspiring. We look forward to continuing our journey with Science Shore e-magazine and participating in future events.

With sincere thanks and appreciation,

Dr. M.R. Murali, PhD, father of D.M. Mukundhan, Class 5

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